

Author Index

Entries refer to part, chapter or section numbers

- Abele, R. K., 7.3
 Åberg, T., 7.4.3
 Abragam, A., 2.6.2
 Abrahams, J. M., 7.1.6
 Abrahams, K., 4.4.2
 Abrahams, S. C., 1.4, 4.2.2, 4.2.6, 5.3, 6.2, 8.1, 8.5, 9.2.2
 Abramowitz, M., 6.1.1, 6.3, 7.5
 Achiwa, N., 2.9
 Ackermann, I., 4.3.7
 Adams, L. H., 3.2
 Adamsky, R. F., 9.2.1
 Adhart, W., 3.4
 Agamalyan, M. M., 4.4.2
 Agarwal, B. K., 4.2.6
 Ahahama, Y., 4.2.5
 Ahlrichs, R., 6.1.1
 Ahmed, A., 5.2
 Ahn, C. C., 4.3.4, 7.2
 Ahtee, M., 2.3, 8.6
 Airey, R. W., 7.1.6
 Akashi, Y., 5.3
 Akhiezer, A. I., 4.2.6
 Akiyoshi, T., 2.9
 Alani, R., 3.5
 Albers, R. C., 4.2.3
 Albertsson, J., 5.3
 Albinati, A., 8.6
 Alcock, N. W., 5.3, 6.3
 Aldred, P. J. E., 4.2.6
 Alefeld, B., 2.6.2, 4.4.2
 Aleksandrov, K. S., 3.1
 Alexander, E., 9.2.1
 Alexander, H., 4.3.8
 Alexander, L., 5.2, 5.3
 Alexander, L. E., 2.3, 3.4, 5.1, 5.3, 6.2
 Alexander, T. K., 4.4.2
 Alexandropoulos, N. G., 7.4.3
 Alkire, R. W., 3.4
 Allemand, R., 2.4.2, 7.1.6, 7.3
 Allen, F. H., 9.5, 9.6, 9.7
 Allen, J. P., 3.1
 Allen, S., 3.4
 Allen, S. J. M., 4.2.4
 Allewell, N. M., 3.4
 Allin, G. W., 7.3
 Allington-Smith, J. R., 7.1.6
 Allinson, N. M., 2.7, 7.1.6
 Allison, S. K., 2.3, 2.7, 4.2.1, 5.3
 Allsopp, D. W. E., 2.7
 Alp, E. E., 5.3
 Alstrup, I., 4.2.3, 4.2.6
 Alstrup, O., 2.5.1
 Altarelli, M., 4.3.4
 Alter, U., 5.3
 Altmann, S. L., 6.1.1
 Altomare, A., 8.6
 Alvarez, L. W., 4.2.3, 4.4.2
 Amadori, R., 4.4.2
 Amelinckx, S., 3.5, 4.3.8, 9.2.2
 Amemiya, Y., 7.1.6, 7.1.8
 Ames, L., 7.1.4
 Ammon, H. L., 3.1
 Amorós, J. L., 2.2, 5.3
 Amorós, M. C., 2.2, 5.3
 d'Amour, H., 5.3
 Anderegg, J. W., 2.6.1
 Anderson, C. A. F., 2.3
 Anderson, D., 2.2, 3.4
 Anderson, D. W., 6.3
 Anderson, E., 8.1
 Anderson, I., 4.4.2
 Anderson, I. S., 4.4.2
 Anderson, J. E., 7.1.6
 Anderson, R., 2.4.1
 Anderson, W. F., 3.1
 Andersson, B., 4.3.7
 Andersson, S., 9.1, 9.7
 Ando, M., 2.2, 2.7, 2.8, 5.3, 7.1.8
 Ando, T., 4.3.3
 Ando, Y., 4.3.7, 8.8
 Andrade, M., 9.2.1
 Andresen, A., 6.1.2
 Andrew, N. L., 5.3
 Andrews, S. J., 2.2, 2.3
 Andrianova, M. E., 7.1.6
 Andrus, J., 2.7
 Angel, R. J., 9.2.2
 Anger, H. O., 7.1.6
 Anisimov, Yu. S., 7.1.6
 Ankner, J. F., 2.9, 4.4.2
 Ansara, I., 2.6.2
 Anstis, G. R., 4.3.8
 d'Anterrosches, C., 4.3.8
 Aoki, K., 3.4
 Aoki, Y., 4.3.7
 Appleman, D. E., 5.2
 Apsimon, R. J., 7.1.6
 Arai, T., 2.3
 Arakali, S. V., 3.1
 Arcese, A., 7.1.7
 Archer, B. T., 4.3.3
 Archer, J. M., 3.4
 Argos, P., 3.4
 Argoud, R., 3.4
 Aristov, V. V., 4.2.6, 5.3
 Armstrong, R. W., 2.7
 Arndt, U. W., 2.2, 2.7, 3.4, 4.2.1, 4.2.2, 5.3, 6.2, 7.1.6
 Arnesen, S. P., 4.3.3
 Arnold, E., 3.4
 Arnold, H., 3.4
 Arnold, P., 2.5.2
 Arrott, A., 6.2
 Arrott, A. S., 2.8
 Arsenin, V. Ya., 2.6.1
 Artioli, G., 9.2.2
 Artymiuk, P., 2.2
 Arvedson, M., 4.3.3
 Åsbrink, S., 5.3
 Ascher, E., 9.8
 Ascheron, C., 5.3
 Ateiner, J., 2.3
 Atoji, M., 6.1.1
 Attfield, J. P., 2.3
 Auleytner, J., 5.3
 Austerman, S. B., 2.7
 Authier, A., 2.7
 Autrata, R., 7.2
 Averbach, B. L., 2.3
 Avery, J., 6.1.1, 8.7
 Avilov, A. S., 2.4.1, 4.3.5
 Axe, J. D., 4.4.2, 4.4.3
 Axelrod, H. J., 3.1
 Axelsson, U., 4.2.2
 Ayers, G. L., 2.3
 Azaroff, L. V., 2.3, 4.2.3, 5.3, 6.3, 9.2.1
 Azumi, I., 5.3
 Bąk-Misiuk, J., 5.3
 Babkevich, A. Yu., 9.2.2
 Bacchella, C. L., 2.6.2
 Bach, H., 3.5
 Bachmann, R., 2.3, 7.4.2
 Backhaus, K.-O., 9.2.2
 Bačkovský, J., 5.3
 Bacon, G. E., 2.6.2, 3.6, 4.4.2, 4.4.4, 6.1.3, 6.4
 Bacon, J. R., 2.6.1
 Badurek, G., 4.4.2
 Baerlocher, Ch., 2.3, 8.6
 Bagchi, S. N., 2.6.1
 Baharie, E., 8.6
 Bai, Z., 8.1
 Baigarin, K. A., 4.2.1
 Baik, D. H., 4.2.2
 Bailey, D., 5.3
 Bailey, I., 2.4.2
 Bailey, R. L., 4.2.1
 Bailey, S. W., 9.2.2
 Baker, J. A., 5.3
 Baker, J. F. C., 5.3
 Baker, R. F., 4.3.4
 Baker, R. J., 9.7
 Baker, S. M., 2.9
 Baker, T. W., 2.3, 5.3
 Bakken, L. N., 4.3.7, 8.8
 Balaic, D. X., 4.2.5
 Baldock, P., 3.1
 Ballon, J., 7.1.3, 7.1.6
 Balzar, D., 8.6
 Band, I. M., 4.2.4
 Banerjee, D., 3.5
 Bannett, Y. B., 7.4.3
 Bannier, G., 9.2.2
 Baptista, G. B., 4.2.4
 Barber, D. J., 3.5
 Barclay, A. N., 3.4
 Barla, K., 5.3
 Barna, S. L., 2.7
 Barnea, Z., 4.2.5
 Barnes, I. L., 5.3
 Barnes, P., 3.4
 Barns, R. L., 5.3
 Baronnet, A., 9.2.2
 Barraud, J., 2.3
 Barreau, G. H., 4.2.2
 Barrett, C. S., 2.3, 2.7, 4.3.5
 Barrientos, J., 4.3.3
 Barry, J. C., 9.2.2
 Bartell, L. S., 4.3.3
 Bartels, K., 3.4, 6.3
 Bartels, K. S., 3.4
 Bartels, W. J., 5.3
 Barth, H., 2.7, 5.2
 Bartl, H., 3.4
 Bartunik, H. D., 3.4
 Baru, S. E., 7.1.6
 Baruchel, J., 2.8, 7.3
 Basile, G., 4.2.2, 5.3
 Basinski, Z. S., 4.3.6.2
 Basso, R., 9.2.2
 Batchelder, D. N., 5.3
 Bateman, J. E., 7.1.6
 Bateman, O., 3.4
 Bates, D. R., 3.4
 Bates, F. S., 2.6.2
 Batson, P. E., 4.3.4
 Battagliarin, M., 2.3
 Batterman, B. W., 2.7
 Baumhauer, H., 9.2.2
 Bauspiess, W., 2.7
 Bautz, M. W., 7.1.6
 Bayvel, L. P., 2.6.1
 Bearden, J. A., 2.3, 4.2.2, 5.2, 5.3
 Beaumont, J. H., 2.3, 2.7, 4.2.5
 Becherer, G., 2.6.1
 Becker, J., 4.4.2
 Becker, P., 4.2.2, 5.3, 8.7, 9.8
 Becker, P. J., 6.3, 6.4, 8.7
 Beckman, R. J., 8.5
 Bednarski, S., 4.4.2
 Bedzyk, M. J., 4.2.3
 Beeman, W. W., 2.6.1, 6.3
 Begg, G. S., 3.4
 Begum, R., 4.2.6
 Behlke, J., 2.6.1
 Behrendt, D. R., 6.1.1
 Bellamy, B. A., 2.3, 5.3
 Bellard, S., 9.5, 9.6
 Bellis, J. G., 7.1.6
 Bellman, R., 6.1.1
 Bellotto, M., 2.3, 5.2, 5.3
 Belokoneva, E. L., 9.2.2
 Belov, N. V., 1.4, 9.2.1
 Belsky, V. K., 9.7
 Belsley, D. A., 8.2, 8.5
 Benedetti, A., 2.3
 Beni, G., 4.2.3
 Bennett, C. L., 3.4
 Benoit, H., 2.6.2
 Bentley, J., 8.7
 Berendsen, H. J. C., 3.1
 Berestetsky, V. B., 4.2.6
 Berg, H. M., 5.3
 Berg, W. F., 2.7
 Bergamin, A., 4.2.2, 5.3
 Berger, H., 5.3
 Berger, J. O., 8.1
 Berger, S. D., 4.3.4
 Bergerhoff, G., 9.4, 9.5, 9.6
 Bergevin, F. de, 4.2.5, 8.7
 Berggren, K.-F., 7.4.3
 Bergman, G., 8.3
 Bergstrom, J. C., 4.2.1
 Bergstrom, P. M. Jr, 4.2.6
 Berk, N. F., 2.9
 Berkum, J. van, 5.2
 Berliner, R., 7.3
 Berman, H., 3.2, 3.3
 Berman, L. E., 4.2.5
 Bernal, J. D., 2.2, 3.2, 4.3.5

AUTHOR INDEX

- Bernard, L., 9.8
 Bernard, Y., 3.1
 Berndtsson, A., 4.2.2
 Berneron, M., 4.4.2
 Bernstein, S., 4.4.2
 Berry, B. S., 2.3
 Bertaut, E. F., 1.4, 8.7, 9.2.1, 9.7
 Bertin, E. P., 4.2.3
 Berzina, T. S., 2.9
 Besson, J. M., 2.5.1
 Beth, H. A., 4.3.3
 Bethe, H., 4.3.4
 Bethe, H. A., 2.4.1, 4.3.1
 Beu, K. E., 5.2, 5.3
 Bevis, M., 5.3
 Bewilogua, L., 7.4.3
 Beyer, H., 4.2.2
 Bhat, H. L., 3.4
 Bhatt, V. P., 3.4
 Bianconi, A., 4.2.3, 4.3.4
 Bickmann, K., 5.3
 Bieber, R. L., 5.3
 Bienenstock, A., 4.2.1, 4.2.3, 4.2.6
 Biggin, S., 5.3
 Biggs, F., 4.3.3, 7.4.3
 Bigler, E., 7.1.6
 Bijvoet, J. M., 2.2, 4.2.6
 Bilderback, D. H., 2.2, 4.2.5
 Binnig, G., 4.3.8
 Bird, D. M., 4.3.2, 4.3.7, 8.8
 Bird, R. B., 8.7
 Birks, L. S., 2.3
 Birnbaum, H. R., 4.2.3
 Bischof, C., 8.1
 Bish, D. L., 2.3, 7.1.4
 Bishop, A. C., 3.1
 Bjerrum Møller, H., 4.4.3
 Black, D. R., 3.4
 Black, R. E., 5.3
 Blackman, M., 2.4.1, 4.3.1, 8.8
 Blair, D. G., 6.4
 Blake, A. J., 2.3
 Blake, R. G., 4.3.7
 Blakeslee, D. M., 3.1
 Blanc, Y., 4.4.2
 Blanton, T. N., 5.2
 Blaschko, O., 9.2.2
 Bläser, D., 3.4
 Blech, I., 9.8
 Bleeksma, J., 2.3
 Bloch, B. J., 7.4.3
 Bloch, F., 4.4.2, 7.4.3
 Block, S., 2.3, 5.1, 5.3
 Blow, D. M., 3.1, 3.4
 Blum, M., 7.1.6
 Blume, M., 4.2.6, 6.1.2, 7.4.3, 8.7
 Blundell, S. A., 4.2.2
 Blundell, T. L., 2.2, 3.1
 Bøe, N., 4.3.7, 8.8
 Boehli, T., 4.2.1
 Boehme, R. F., 8.7
 Boer, D. K. G. de, 2.9
 Boer, J. L. de, 7.5, 9.2.2
 Boerdijk, A. H., 9.2.1
 Boersch, H., 4.3.4
 Boese, R., 3.4
 Boettinger, W. J., 2.7
 Boeuf, A., 2.8
 Boggs, P. T., 8.1
 Böhlen, K. van, 3.4
 Bohlin, H., 2.3
 Boie, R. A., 7.3
 Bojarski, Z., 2.3
 Bokij, G. B., 9.2.2
 Bold, T., 2.3
 Boll-Dornberger, K., 9.2.2
 Bolling, E. D., 4.4.2
 Bolotina, N. B., 5.3
 Bomchil, G., 5.3
 Bond, C. C., 7.1.6
 Bond, W. L., 2.7, 5.3
 Bone, D. A., 7.1.6
 Bonelle, J. P., 4.2.3
 Bongaarts, P. J. M., 4.4.2
 Bonham, R. A., 4.3.3
 Böni, P., 4.4.2
 Bonin, D., 7.1.6
 Bonnet, M., 8.7
 Bonnet, R., 3.4
 Bonse, M., 2.6.2
 Bonse, U., 2.2, 2.3, 2.6.1, 2.7, 4.1, 4.2.2, 4.2.5, 4.2.6, 4.4.2, 5.3
 Bontchev, R., 9.2.2
 Booker, G. R., 5.4.2
 Boom, G., 5.2
 Boothroyd, A. T., 2.6.2
 Borchert, G. L., 4.2.2
 Bordas, J., 2.5.1, 4.1, 5.2, 7.1.6, 9.2.1
 Bordet, J., 2.4.2
 Bordet, P., 3.1
 Borg, I. Y., 2.3
 Borgeaud, P., 5.3
 Borkowski, C. J., 7.1.6, 7.3
 Börner, H. G., 4.2.2
 Borovilova, N. V., 4.4.2
 Borso, C. S., 7.1.6
 Bosshard, R., 3.4, 7.1.6
 Böttger, G., 4.4.2
 Botton, G. A., 8.8
 Boucherle, J. X., 8.7
 Bouchiat, M. A., 4.4.2
 Bouldin, C. E., 4.2.3
 Boulin, C., 7.1.6
 Bouman, J., 6.2
 Bouquiere, J. P., 3.4
 Bourdel, J., 7.3
 Bourdillon, A. J., 2.5.1, 4.3.4, 5.2
 Bourke, P., 4.2.1
 Bourret, A., 4.3.8
 Bovin, J.-O., 9.2.2
 Bowen, D. K., 2.7, 4.1, 4.2.3, 5.3
 Bowen, T. S., 4.2.1
 Bowman, H. A., 5.3
 Box, G. E. P., 8.1, 8.2
 Boyarskaya, R. V., 4.3.5
 Boyd, R. J., 8.7
 Boyers, D. G., 4.2.1
 Braam, A. W. M., 7.4.2
 Bracewell, R., 2.6.1
 Brádrler, J., 2.7
 Brady, R. L., 3.1, 3.4
 Braffman, O., 9.2.1
 Bragg, W. H., 2.2, 2.3, 5.3
 Bragg, W. L., 2.2, 2.6.2, 5.3
 Brailion, P., 3.5
 Brammer, L., 9.5, 9.6
 Brandenburg, K., 9.4
 Breitenstein, M., 4.3.3
 Brenner, R., 7.3
 Brentano, J. C. M., 2.3
 Brese, N. E., 9.1
 Bretherton, L., 3.4
 Briand, J. P., 5.2
 Brice, M. D., 9.5, 9.6
 Bricogne, G., 4.3.7, 7.1.6
 Briggs, E. A., 4.2.4, 4.2.6, 7.4.3
 Brindley, G. W., 9.2.2
 Brister, K. E., 4.2.5
 Britton, D., 3.1
 Brock, C. P., 9.7
 Brockhouse, B. N., 4.4.2
 Brockway, L. O., 4.3.3
 Brodsky, A., 4.2.5
 Brongersma, H. H., 7.1.6
 Brooks, I., 2.2
 Bross, H., 4.3.4
 Brouns, E., 9.8
 Brown, A. S., 4.2.5
 Brown, B. R., 5.3
 Brown, D., 4.2.1
 Brown, D. B., 2.3
 Brown, G. E., 4.2.6
 Brown, G. M., 6.1.1
 Brown, G. S., 4.2.3, 7.4.4
 Brown, H., 1.4, 9.8
 Brown, I. D., 9.4, 9.5, 9.6
 Brown, L. M., 4.3.4, 4.3.8
 Brown, M. C., 9.6
 Brown, N. E., 3.4
 Brown, P. J., 4.4.5, 6.1.2, 8.7
 Brown, R. T., 4.2.4, 4.2.6, 7.4.3
 Brown, W. D., 7.4.3
 Brownell, S. J., 2.3, 5.2
 Brownell, W. E., 2.3
 Bruce, M. I., 9.6
 Brühl, H.-G., 5.3
 Brumberger, H., 2.6.1
 Brunegger, A., 4.3.4
 Brunel, M., 8.7
 Brunner, G. O., 9.1, 9.3
 Brydson, R., 4.3.4
 Brysk, H., 4.2.6
 Bubenzer, A., 4.3.4
 Buchanan, D., 2.3
 Buchanan, J., 8.2
 Buckingham, A. D., 8.7
 Budinger, T. F., 4.3.8
 Budnick, J. L., 4.4.2
 Bueche, A. M., 2.6.1
 Buerger, M. J., 1.4, 2.2, 2.3, 3.4, 5.3, 6.2, 9.2.1
 Buffat, P., 4.4.2
 Buggy, T. W., 4.3.4, 7.2
 Bühner, W., 4.4.2
 Bulkin, B. J., 4.1
 Bülow, H., 9.8
 Bülow, R., 1.4
 Bunch, D. S., 8.1
 Bunge, A. V., 4.3.3
 Bunge, C., 4.3.3
 Bunge, C. F., 4.3.3
 Bunge, H.-J., 4.3.5
 Bunkenburg, J., 4.2.1
 Bunker, B., 4.2.3
 Bunker, G., 4.2.3
 Bunn, C. W., 3.1
 Bunyan, P. J., 4.3.3
 Burany, X. M., 9.2.2
 Buras, B., 2.5.1, 2.5.2, 4.2.1, 4.2.6, 5.2, 5.3, 7.1.5
 Burbank, R. D., 6.2
 Burch, T. J., 4.4.2
 Burdette, H. E., 2.7, 3.4
 Burek, A. J., 4.2.1
 Burge, R. E., 7.2
 Burger, A., 7.1.4
 Burgers, W. G., 2.2
 Burgess, W. G., 8.8
 Burgy, M. T., 4.4.2
 Burke, B. E., 7.1.6
 Burke, J., 5.3
 Burkel, E., 7.4.2
 Burla, M. C., 8.6
 Burley, S. K., 3.1
 Burns, R., 7.1.6
 Burr, A. F., 2.3, 4.2.2
 Burshtein, Z., 7.1.4
 Bursill, L. A., 4.3.8
 Buschert, R. C., 5.3
 Buseck, P., 4.3.4
 Buseck, P. R., 4.3.8
 Bushnell-Wye, G., 2.3
 Bushuev, V. A., 7.4.3
 Busing, W. R., 3.4, 5.3
 Butler, D. J., 7.1.6
 Butler, E. P., 3.5
 Butler, M., 2.3
 Butler, R. D., 3.3
 Buttiker, M., 2.9
 Buxton, B. F., 4.3.7
 Bychkova, V. E., 2.6.1
 Byer, R. L., 4.2.1
 Byrd, R. H., 8.1
 Caballero, A., 4.2.3
 Cable, J. W., 9.8
 Caglioti, G., 2.3, 2.4.2, 4.4.3, 8.6
 Cahn, J. W., 9.8
 Cahn, R. W., 1.3
 Calas, G., 4.2.3, 4.3.4
 Calvert, L. D., 2.3, 9.3
 Campbell, J. E., 3.4
 Campos, C., 3.4
 Camps, R. A., 4.3.8
 Capasso, S., 3.1
 Capel, M. S., 2.6.2
 Capellmann, H., 4.4.2
 Caplan, H. S., 4.2.1
 Cardona, M., 4.2.2, 5.3
 Cardoso, L. P., 3.4
 Carlile, C. J., 2.4.2, 4.4.2, 7.4.2
 Carlson, E. H., 9.2.2
 Caroll, C. L., 5.3
 Carpenter, J. M., 4.4.1
 Carr, M. J., 2.4.1
 Carr, P. D., 2.2, 3.4, 5.3
 Carter, C. B., 4.3.8
 Carter, C. W., 3.1
 Carter, C. W. Jr, 3.1
 Cartwright, B. A., 9.5, 9.6
 Carver, T. R., 4.4.2
 Cascarano, G., 8.6
 Cascio, D., 3.4
 Case, A. L., 2.8
 Caspar, D. L. D., 4.4.2
 Cassetta, A., 2.2

AUTHOR INDEX

- Castaing, R., 4.2.1, 4.3.4
 Castelli, C. M., 2.7
 Caticha-Ellis, S., 3.4
 Catti, M., 1.3
 Catura, R. C., 7.1.6
 Cauchois, Y., 4.2.2
 Caudron, B., 7.1.6
 Caulfield, P. B., 5.3
 Causer, R., 2.3, 5.3
 Cavagnero, G., 4.2.2, 5.3
 Cembali, F., 5.3
 Cernik, R., 5.2
 Cernik, R. J., 2.3
 Černošický, M., 5.3
 Cerva, H., 2.7
 Ceska, T. A., 3.1
 Chadha, G. K., 9.2.1
 Chadi, D. J., 9.1
 Chaimdi, M., 3.4
 Chakera, A., 6.3
 Chamberland, B. L., 9.2.2
 Chambers, F. W., 5.3
 Chambers, W. F., 2.4.1
 Chan Dyk T Khan, 7.1.6
 Chance, B., 4.2.3
 Chandler, G. S., 6.1.1
 Chandrasekaran, M., 9.2.1
 Chandrashekar, G. V., 3.1
 Chang, S.-L., 5.3
 Chan Khyo Dao, 7.1.6
 Chantler, C. T., 4.2.6
 Chapman, J. N., 7.2
 Chapuis, G., 4.2.6, 7.5
 Charpak, G., 2.2, 7.1.6
 Chatterjee, S., 8.5
 Chau, K., 4.3.8
 Chayen, N. E., 3.1
 Cheary, R. W., 5.2
 Cheetham, A. K., 2.3, 8.6
 Cheetham, G. M. T., 2.3, 3.1
 Chen, C. H., 4.3.4
 Chen, H., 4.2.3, 4.4.2
 Chen, S. H., 2.6.1, 2.6.2
 Chen, S.-H., 2.9
 Chen-Mayer, H. H., 4.4.2
 Cheng, T. Z., 4.3.8
 Cheremukhina, G. A., 7.1.6
 Chernenko, S. P., 7.1.6
 Chernov, M. A., 9.2.2
 Cherns, D., 4.3.8
 Chesser, N. J., 4.4.2, 4.4.3
 Cheung, S., 4.4.2
 Chevallier, P., 5.2
 Chidambaram, R., 6.1.1
 Chieux, P., 7.3
 Chikawa, J., 7.1.6, 7.1.7, 7.1.8
 Chikawa, J.-I., 2.7
 Chipera, S. J., 7.1.4
 Chipman, D. R., 4.2.3
 Chirino, A. J., 3.1
 Chou, H. P., 7.3
 Chowanietz, E. G., 7.1.6
 Christ, J., 4.4.2
 Christen, D. K., 2.6.2
 Christensen, A. N., 2.3, 7.1.3
 Christoph, A., 5.3
 Chu, B., 7.1.6
 Chung, S. J., 1.3
 Chupp, T. E., 4.4.2
 Chwaszczewska, J., 2.5.1
 Cisařová, I., 9.2.2
 Cisney, E., 2.3
 Citrin, P. H., 4.1, 4.2.3
 Clark, G. F., 2.7
 Clark, S. M., 2.5.1, 3.4
 Clay, R. E., 4.2.1
 Clay, W. T., 7.3
 Cleemann, J. C., 2.6.1
 Clegg, W., 3.4, 5.3
 Clementi, E., 4.4.5, 6.1.1, 6.1.2
 Clifton, I. J., 3.4
 Cline, J. P., 2.3
 Clout, P. N., 7.1.6
 Cochran, W., 5.3
 Cockayne, D. J. H., 4.3.8
 Cocking, S. J., 4.4.2
 Cody, V., 3.1
 Coelho, A., 5.2
 Coene, W., 4.3.8
 Coene, W. M. J., 4.3.8
 Coffman, D., 4.3.3
 Cohen, E. R., 4.2.1, 4.2.2, 4.2.3
 Cohen, G. G., 2.7
 Cohen, J. B., 2.3
 Cohen, M. U., 5.2
 Cohn-Vossen, S., 9.1
 Cole, H., 2.7, 4.2.6, 5.3
 Cole, W. F., 5.3
 Colegrove, F. D., 4.4.2
 Coleman, T. A., 7.1.6
 Collett, B., 7.1.6
 Colliex, C., 4.3.4
 Collins, C. B., 4.2.1
 Collins, D. M., 8.2
 Colwell, J. F., 4.4.2
 Comparat, V., 7.1.3, 7.1.6
 Compton, A. H., 2.3, 2.7, 4.2.1, 5.3
 Condon, E. U., 8.7
 Conger, G. B., 7.1.6
 Conolly, M. L., 3.4
 Conradi, E., 9.2.2
 Constenoble, M. L., 2.3
 Conturie, Y., 4.2.1
 Convert, P., 2.4.2, 7.3
 Conway, J. H., 9.1
 Cook, J. E.,
 Cook, R. D., 8.5
 Cookson, D. J., 4.2.6
 Cooper, A. S., 5.3
 Cooper, C. W., 2.6.1
 Cooper, M. J., 4.2.3, 4.4.3, 6.3, 7.4.2, 7.4.3, 8.6
 Copley, J. R. D., 4.4.2
 Coppens, P., 2.2, 3.4, 6.3, 6.4, 8.7, 9.8
 Cork, C., 2.2
 Cork, C. W., 7.1.6
 Cosier, J., 3.4
 Cosslet, V. E., 4.2.3
 Cosslett, V. E., 4.2.1
 Cotton, J. P., 2.4.2, 7.3
 Cottrell, A., 9.2.1
 Cottrell, A. H., 6.4
 Couderchon, G., 4.4.2
 Coulter, K. P., 4.4.2
 Coulthard, M. A., 4.3.1, 6.1.1
 Coustham, J., 2.6.2
 Coutanceau Clarke, J. A. R., 9.7
 Cowley, J. M., 2.4.1, 4.1, 4.3.1, 4.3.2, 4.3.6.1, 4.3.7, 4.3.8, 8.8, 9.2.1, 9.2.2
 Cowley, R. A., 4.4.3
 Cox, A. R., 3.5
 Cox, D. E., 2.3, 2.5.1, 4.2.6, 7.4.4, 8.6, 9.2.2
 Cox, H. L. Jr, 4.3.3
 Cox, M. J., 3.1
 Coyle, B. A., 6.3
 Cracknell, A. P., 6.1.1
 Crain, J., 2.3
 Cramér, H., 8.4
 Craven, A. J., 4.3.4, 7.2
 Craven, B. M., 6.4
 Crawford, F. S., 4.2.3
 Crawford, R. K., 2.9
 Craxton, R. S., 4.2.1
 Creagh, D. C., 4.2.3, 4.2.4, 4.2.5, 4.2.6, 10
 Cressey, G., 2.3
 Crewe, A. V., 4.3.4, 4.3.8
 Crichton, R. R., 2.6.1, 2.6.2
 Croce, P., 2.9
 Cromer, D. T., 4.2.4, 4.2.6, 4.3.1, 6.1.1, 7.4.3, 8.7
 Cross, J. O., 4.2.3
 Crowder, C. E., 2.3, 5.2
 Crowfoot, D., 3.2
 Crozier, E. D., 4.2.3
 Crozier, P. A., 4.3.4
 Cruickshank, D. W. J., 2.2, 3.4, 5.3, 8.3, 8.7
 Cudney, B., 3.1
 Culhane, J. L., 7.1.6
 Cullen, E. E., 4.2.4
 Cullity, B. D., 2.3
 Currat, R., 4.4.2, 7.4.3, 9.8
 Curtis, C. F., 8.7
 Cusack, S., 2.6.2
 Cusatis, C., 4.2.6
 Cuttitta, F., 3.2
 Czerwinski, H., 7.4.3
 Daams, J. L. C., 9.3
 Dabbs, J. W. T., 4.4.2
 Daberkow, I., 4.3.8
 Daberkow, L., 7.2
 Dabrowski, A., 7.1.4
 Dabrowski, A. J., 7.1.5
 Dahl, J. P., 8.7
 Dainton, D., 7.1.6
 Dalgligh, R. L., 7.1.6
 Dallas, W. J., 7.1.6
 Dallé, D., 3.4
 Dam, B., 9.8
 Damaschun, G., 2.6.1
 Damaschun, H., 2.6.1
 Dana, E. S., 3.5
 Daniel, V., 9.8
 Daniels, J., 4.3.4
 Daniels, P. J., 7.1.6
 D'Antonio, P., 3.1
 Danz, H., 3.4
 D'Aprile, F., 3.4
 Darriet, B., 9.2.2
 Darriet, J., 9.2.2
 Dartyge, E., 7.1.6
 Darwin, C. G., 6.4
 Das Gupta, P., 5.2
 Dash, J. G., 4.4.2
 Dathe, W., 9.2.2
 D'Auria, S., 3.1
 Davanloo, F., 4.2.1
 David, W. I. F., 2.3, 2.5.2, 8.6
 Davidson, E. R., 6.1.1
 Davidson, J. B., 2.8
 Davies, J. E., 9.7
 Davies, N. C., 3.5
 Davies, S. T., 2.7, 4.2.3
 Davis, B. L., 2.3, 5.3
 Dawson, B., 6.1.1
 Day, M. W., 3.1
 Deacon, A., 2.2
 Debye, P., 2.3, 2.6.1, 6.2
 DeCicco, P. D., 7.4.3
 Deckman, H. W., 7.1.6
 Degoy, S., 3.1
 Dehlinger, U., 9.8
 Deininger, C., 8.8
 Delaey, L., 9.2.1
 Delamoye, P., 9.8
 De Lange, P. W., 4.4.2
 Delapalme, A., 2.5.2, 4.4.2, 8.7
 Delduca, A., 7.1.6
 Deletrez, J., 4.2.1
 Delf, B. W., 4.2.5, 5.2
 Del Grande, N. K., 4.2.3, 4.2.4
 Delhez, R., 2.3, 5.2
 Dellby, N., 4.3.7, 4.3.8
 Delley, B., 8.7
 Deltour, J., 2.3
 DeLucia, M. L., 8.7
 De Marco, J. J., 4.2.4
 Demasi, D., 3.1
 Demierre, C., 2.2
 Demmel, J., 8.1
 Denesyuk, A. I., 2.6.1
 Denley, D., 4.2.3
 Denne, W. A., 3.4
 Denner, W., 5.3
 Dennis, J. E., 8.1
 Dent Glasser, L. S., 3.4
 Depmeier, W., 9.8
 Dereniak, E. L., 7.1.6
 Derewenda, Z., 7.1.6
 Desai, C. F., 3.4
 Descamps, J., 4.2.1
 Desclaux, J. P., 4.2.2, 4.4.5, 6.1.2, 8.7
 Deslattes, R., 5.2
 Deslattes, R. D., 4.2.1, 4.2.2, 5.2, 5.3
 Desseaux, J., 4.3.8
 DeTitta, G. T., 3.1
 Deutsch, M., 2.3, 4.2.2, 4.2.6, 5.3
 Dewan, J. C., 3.4
 Dexpert, H., 4.2.3
 Dexter, D. L., 2.3
 D'Eye, R. W. M., 3.4
 Dickens, B., 8.3
 Dideberg, O., 3.4
 Dietrich, B., 5.3
 Dietz, G., 9.2.2
 Dietz, J., 7.1.6
 DiGiovanni, H. J., 2.3
 Dikovskaya, R. R., 5.3
 Diller, T. C., 3.1
 Dimitrov, D. P., 2.6.1
 Dingley, D. J., 5.3
 Dinnebier, R. E., 8.6
 Di Nova, K., 4.2.1
 Dischler, B., 4.3.4
 Disko, M. M., 4.3.4

AUTHOR INDEX

- Divadeenam, M., 4.4.4
Dixon, N. E., 3.1
Dobrzynski, L., 4.4.2
Dobson, P. J., 4.3.8
Dodson, G. G., 3.4
Doi, K., 2.8
Dolin, R., 7.1.6
Doll, C., 4.4.2
Dollase, W. A., 2.3
Dolling, G., 4.4.2
Donaldson, J. R., 8.1
Dongarra, J., 8.1
Doniach, S., 2.6.1, 4.2.3
Donnay, G., 1.3
Donnay, J. D. H., 1.3, 1.4, 9.8
Dönni, A., 4.4.2
Donohue, J., 9.7
Dorenwendt, K., 4.2.2, 5.3
Dornberger-Schiff, K., 3.4, 9.2.1, 9.2.2
Dorner, B., 4.4.3, 7.4.2
Dorrington, E., 7.1.6
Dorset, D. L., 3.5, 4.3.7, 4.3.8
D'Orsi, C. J., 7.1.6
Doscher, M. S., 3.4
Doty, J. P., 7.1.6
Doubleday, A., 9.5, 9.6
Downing, K. H., 4.3.8
Downing, R. G., 4.4.2
Downs, J., 4.3.7, 8.8
Doyle, P. A., 4.2.4, 4.3.1, 4.3.2, 6.1.1
Drabkin, G. M., 4.4.2
Dragoo, A. L., 5.2
Draper, N., 8.1, 8.4
Dreier, P., 4.2.3, 4.2.6
Drenth, J., 3.1
Dressler, L., 5.3
Drits, V. A., 2.4.1, 4.3.5
Drum, C. M., 3.5
Drummond, W., 7.1.4
Duarte, P. W. E. P., 4.2.4
Dubey, M., 9.2.1
Duchenois, V., 7.1.6
Du Croz, J., 8.1
Ducruix, A., 3.1
Dudarev, S. L., 4.3.2
Dudley, M., 2.8
Duijneveldt, F. B. van, 6.1.1
Duisenberg, A. J. M., 3.4
Duke, P. J., 4.2.1
Düker, H., 4.3.8
Dumas, P., 3.4
Du Mond, J. W. M., 2.3, 2.7
Dunitz, J. D., 9.7
Dunn, H. M., 5.3
Dunning, T. H. Jr, 6.1.1
Dupont, Y., 7.1.6
Duppich, J., 4.4.2
Durand, D., 6.1.1
Durbin, R., 2.2
Durbin, R. M., 7.1.6
Durham, J. P., 4.3.4
Durham, P. J., 4.2.3
Đurovič, S., 9.2.2
Dürr, J., 4.2.3
Dušek, M., 9.2.2
Dvoryankina, G. G., 2.4.1
Dwiggins, C. W. Jr, 6.3
Dyson, N. A., 2.3, 4.2.1, 7.1.6
Early, J. G., 3.4
Eastabrook, J. N., 5.3, 7.1.2, 7.5
Ebeling, G., 4.2.2, 5.3
Eberhardt, W., 4.1
Ebert, M., 4.4.2
Ebisawa, T., 2.9, 4.4.2
Eckert, J., 4.4.3
Eddy, M. M., 2.3
Edington, J. W., 3.5, 5.4.1
Edwards, H. J., 2.3, 5.2
Edwards, S. L., 3.4
Edwards, T. H., 2.3
Effenberger, H., 9.2.2
Egelstaff, P. A., 4.4.2
Egerton, R. F., 4.3.4
Eggleton, R. A., 9.2.2
Egidy, T. V., 4.2.2
Egorov, A. I., 4.4.2
Eguchi, T., 4.3.7, 8.8
Ehrenberg, W., 4.2.1
Eichelle, G., 3.1
Eigner, W.-D., 2.6.1
Eikenberry, E. F., 2.7, 7.1.6
Eiselé, J.-L., 3.1
Eisenberg, H., 2.6.2
Eisenberger, P., 2.2, 4.1, 4.2.3, 7.4.3
Eklund, H., 3.4
El Korashy, A., 3.4
Elder, M., 3.4
Eling, A., 9.1
Ellinger, Y., 8.7
Ellis, T., 5.3
Ellisman, M. H., 7.2
Elsenhans, O., 4.4.2
Elsner, G., 7.1.6
Emberson, D. L., 7.1.6
Emmerich, C., 2.2
Endesfelder, A., 4.3.3
Endoh, H., 4.3.8
Endoh, T., 7.1.6
Eng, P. J., 4.2.5
Enge, H. A., 4.3.4
Engel, D. H., 4.2.6
Engel, P., 1.4
Engel, W., 4.3.4
Engelman, D. M., 2.6.2
Englander, M., 2.8
Engstrom, P., 4.2.5
Enzo, S., 2.3
Epstein, J., 4.3.3, 8.7
Erickson, J. W., 3.4
Ermer, O., 9.1
Ernst, R. R., 5.5
Ertl, G., 4.1
Escoffier, A., 4.4.2
Esquivel, R. O., 4.3.3
Esteva, J. M., 4.3.4
Evans, B. W., 9.2.2
Evans, E. H., 3.4
Evans, H. T., 2.2, 5.2
Evans, H. T. Jr, 5.3
Evans, J. C., 3.4
Evans, R. C., 2.3, 9.7
Evans, R. G., 3.5
Ewing, F., 3.1
Ewins, C., 3.5
Eyres, B. L., 3.5
Faber, W., 4.4.2
Fabian, D. J., 4.2.2
Fabri, R., 5.3
Fagherazzi, A., 2.3
Fagherazzi, G., 2.3
Fåk, B., 2.8
Fan, G. Y., 4.3.7, 7.2
Fan, H. F., 4.3.8
Fang, Y., 6.2
Fankuchen, I., 2.3
Fano, U., 4.3.4, 7.1.6
Farabaugh, E. N., 3.5
Farge, Y., 4.2.1
Farkas-Jahnke, M., 9.2.1
Farnell, G. C., 7.2
Farnoux, B., 2.4.2, 7.3
Farquhar, M. C. M., 5.3
Faruqi, A. R., 7.1.6
Fast, G., 9.8
Favro, L. D., 6.1.1
Fawcett, T. G., 2.3, 5.2
Fearon, E. O., 5.3
Feder, R., 2.3
Fedorov, B. A., 2.6.1
Fedorov, V. V., 8.1, 8.4, 8.5
Fedotov, A. F., 4.3.5, 9.2.2
Feher, G., 3.1
Feidenhans'l, R., 2.3, 7.1.3
Feigin, L. A., 2.6.1, 2.9
Fejes, P. L., 4.3.4, 4.3.8
Felcher, G. P., 2.9
Feldman, C., 4.1
Feller, W., 6.1.1
Feng, H.-P., 7.1.6
Ferguson, I. F., 5.2
Fermi, E., 4.2.6, 7.4.3, 8.7
Ferraris, G., 1.3, 4.3.5
Ferré-D'Amaré, A. R., 3.1
Festenberg, C. V., 4.3.4
Fewster, P. F., 5.3
Fichtner, K., 9.2.2
Fichtner-Schmittler, H., 9.2.2
Fields, P. M., 4.3.8
Figueiredo, M. O., 9.1
Figueiredo, M. O. D., 9.2.2
Filhol, A., 3.4
Filippini, G., 9.7
Filscher, G., 5.3
Finger, L. W., 2.3, 2.5.1, 3.4, 8.3
Fink, J., 4.3.4
Fink, M., 4.3.3
Finlayson, H., 4.2.2
Finney, J. L., 3.4
Finzel, B. C., 7.1.6
Fiori, C. E., 7.1.4
Fiorito, R. B., 4.2.1
Fischer, D. G., 5.3
Fischer, D. W., 4.3.4
Fischer, J., 3.4, 7.3
Fischer, K., 2.7, 4.2.6
Fischer, K. F., 1.4
Fischer, P., 4.4.2, 5.5
Fischer, S., 4.4.2
Fischer, W., 1.4, 9.1
Fisher, R., 6.1.1
Fisher, R. G., 3.1
Fisher, R. M., 4.3.7, 8.8
FitzGerald, J. D., 4.3.8, 5.4.2
Fitzsimmons, M., 2.9
Fjellvåg, H., 2.3, 7.1.3
Flack, H. D., 1.3, 4.2.2, 5.3, 6.3, 8.1
Flank, A. M., 7.1.6
Fleischer, M., 9.2.2
Flint, R. B., 7.2
Flower, H. M., 3.5
Fock, V., 4.2.6
Foit, F. F. Jr, 3.4
Foltyn, T., 4.4.2
Fomin, V. G., 5.3
Fontaine, A., 7.1.6
Fontecilla-Camps, J. C., 3.1
Ford, W. E., 3.5
Fordham, J. L. A., 7.1.6
Förster, E., 4.2.2, 5.3
Forsyth, J. B., 4.4.2, 4.4.5, 7.3, 8.7
Forsyth, J. M., 4.1, 4.2.1
Forsythe, E., 3.1
Forte, M., 4.4.2
Foster, B. A., 7.1.3
Fouassier, M., 7.1.6
Fourme, R., 2.2, 3.4, 4.2.1, 7.1.6
Fourmond, M., 2.6.2
Fournet, G., 2.6.1, 2.6.2
Fournier, T., 3.1
Fowler, C. E., 7.3
Fox, A. G., 4.3.1, 4.3.2, 4.3.7, 6.1.1, 8.8
Fraaije, J. G. E. M., 3.1
Fraase Storm, G. M., 3.4
Frahm, A., 4.2.3
Frank, F. C., 9.1, 9.2.1
Frank, J., 4.3.8
Frankel, R. D., 4.1, 4.2.1
Frank-Kamenetskii, V. A., 9.2.2
Franklin, K. R., 2.3
Franzini, M., 9.2.2
Fraser, G. W., 7.1.6
Frauenfelder, H., 3.4
Freeborn, B. R., 2.6.2
Freeborn, W. P., 2.3
Freeman, A. J., 4.4.5, 6.1.2, 8.7
Freeman, F. F., 4.4.2
Freer, S. T., 7.1.6
French, S., 7.5
Freund, A., 4.2.6, 5.3
Freund, A. K., 4.2.5, 4.4.2
Freund, I., 7.4.3
Frevl, L. K., 2.3, 2.4.1
Frey, F., 3.4, 4.4.2
Freymann, D., 7.1.6
Fricke, H., 4.2.3
Friedli, H. P., 4.4.2
Friedman, H., 6.3
Friedrich, H., 4.4.2
Friedrich, W., 2.1, 2.2
Frishberg, C., 8.7
Fritsch, E., 4.3.4
Fritsch, M., 4.2.2, 5.3
Frolova, K. E., 4.3.5
Frolow, F., 3.4
Frueh, A. J., 9.2.2
Fryer, J. R., 3.5, 4.3.8
Fu, Z. Q., 4.3.8
Fuchs, H. F., 7.1.6
Fuchs, R., 4.3.4
Fuess, H., 3.4, 4.4.2, 8.7
Fuggle, J. C., 4.2.2, 4.3.4
Fujii, K., 4.2.2
Fujii, Y., 4.4.3
Fujikawa, B. K., 4.2.4, 4.2.6

AUTHOR INDEX

- Fujimoto, I., 2.7, 7.1.6, 7.1.7
 Fujimoto, Z., 4.2.2
 Fujita, T., 7.1.6
 Fujiwara, K., 4.3.1
 Fujiwara, M., 4.2.3
 Fujiyoshi, Y., 4.3.7, 4.3.8
 Fukahara, A., 5.3
 Fukamachi, T., 2.5.1, 5.2, 6.3
 Fukuhara, A., 4.3.7, 4.3.8, 8.8
 Fukumachi, T., 4.2.5
 Fukumori, T., 5.3
 Fuller, W. A., 8.1
 Fuoss, P. H., 4.2.3, 4.2.6
 Furry, W. H., 6.1.1
 Futagami, K., 5.3
- Gabe, E. J., 5.3
 Gabel, K., 4.2.5
 Gabor, D., 4.3.8
 Gabriel, A., 7.1.6
 Gähler, R., 4.4.2
 Gainsford, G. J., 2.3
 Gałdecka, E., 5.3
 Gale, B., 5.2
 Gallo, R., 3.4
 Galloy, J. J., 9.7
 Galy, J., 9.2.2
 Gamarnik, M. Ya., 5.3
 Gamblin, S. J., 3.4
 Gandolfi, G., 2.3
 Ganow, D., 5.3
 Garavito, R. M., 3.1
 Garcia Arribas, A., 9.8
 García-Ruiz, J. M., 3.1
 Gard, J. A., 5.4.1, 9.2.2
 Garfield, B. R. C., 7.1.6
 Garlick, G. F. J., 7.2
 Garman, E. F., 3.4
 Garrett, R., 4.2.5
 Garrett, R. F., 4.2.5
 Garroff, S., 2.9
 Gasgnier, M., 4.3.4
 Gaultier, J.-P., 4.3.5
 Gauthier, J. P., 9.2.1
 Gavezzotti, A., 9.7
 Gavin, R. M. Jr., 4.3.3
 Gavriila, M., 4.2.6, 7.4.3
 Gay, D. M., 8.1
 Gearhart, R. A., 4.2.1
 Gedcke, D. A., 5.2
 Geiger, H., 7.1.2
 Geiger, J., 4.3.3, 4.3.4
 Geist, V., 5.3
 George, B., 2.6.2
 George, J. D., 2.3, 5.3
 Gerber, C., 4.3.8
 Gerdau, E., 5.3
 Gerken, M., 5.3
 Gerlich, R., 9.1
 Gernat, C., 2.6.1
 Gerold, V., 2.7
 Gerstenberg, H., 4.2.3
 Gerstenberg, H. M., 4.2.3, 4.2.4
 Gerward, L., 2.5.1, 2.5.2, 4.2.3, 4.2.4, 4.2.6, 5.2, 5.3
 Ghose, S., 3.4
 Giacobozzo, C., 8.6
 Gibbons, P. C., 4.3.4
 Gibbs, D., 2.9, 7.4.3, 8.7
 Gibson, K. D., 9.7
 Giegé, R., 3.1
- Gielen, P., 5.3
 Giessen, B. C., 2.3, 2.5.1, 5.2
 Giles, C., 4.2.5
 Gill, P. E., 8.3
 Gillham, C. J., 2.3, 5.2
 Gilliland, G. L., 3.1, 7.1.6
 Gillon, B., 8.7
 Gilmore, C. J., 4.3.7, 4.3.8
 Gilmore, D. J., 7.1.6
 Girgis, K., 9.3
 Gjønnnes, J., 4.3.3, 4.3.7, 5.4.2, 8.8
 Gjønnnes, K., 4.3.7, 8.8
 Glaeser, R. M., 4.3.7, 4.3.8
 Glass, H. L., 5.3
 Glatter, O., 2.6.1, 2.6.2
 Glättli, H., 2.6.2, 4.4.4
 Glauber, R., 4.3.3
 Glazer, A. M., 2.5.1, 3.4, 5.2, 5.3
 Glazer, J., 4.3.7
 Glinka, C. J., 4.4.2
 Glover, I., 3.4
 Glusker, J. P., 2.2
 Gobel, H., 4.2.6
 Göbel, H. E., 2.3, 7.1.3
 Gobert, G., 4.4.2
 Goddard, H. F., 7.1.6
 Goddard, P. A., 2.7
 Godwin, R. P., 4.2.1
 Godwod, K., 5.3
 Goetz, K., 4.2.2, 5.3
 Golay, M. J. E., 2.3
 Goldberg, M., 4.2.1, 8.7
 Goldman, L. M., 4.2.1
 Goldman, M., 4.4.4
 Goldschmidt, V., 9.8
 Goldsmith, C. C., 2.3
 Goldsztaub, S., 4.2.1, 9.2.2
 Golob, P., 4.3.4
 Golovin, A. L., 5.3
 Golub, R., 4.4.2
 Gonschorek, W., 5.3
 Gonzalez, A., 3.4
 Goodhew, P. J., 3.5
 Goodisman, J., 2.6.1
 Goodman, P., 2.4.1, 4.3.6.1, 4.3.7, 8.8, 9.2.2
 Goodson, J. H., 7.1.6
 Goral, K., 2.6.1
 Gorceix, O., 4.2.2
 Gordon, G. E., 2.3, 2.5.1, 5.2
 Gordon, R. G., 8.7
 Gorshkov, A. I., 4.3.5
 Goto, K., 2.7, 7.1.6, 7.1.7
 Goto, N., 7.1.6, 7.1.7
 Gottschalk, H., 4.3.8
 Gotwals, J. K., 5.3
 Goulon, J., 4.2.5
 Graaff, R. A. G. de, 6.3
 Graafsma, H., 3.4
 Graeff, W., 2.7
 Graeser, S., 9.2.2
 Graf, W., 4.4.2
 Grant, B. K., 2.3
 Grant, D. F., 7.5
 Grant, G. A., 3.5
 Grant, I., 4.3.1, 4.3.2
 Grasselli, J. G., 4.1
 Gratias, D., 9.8
 Graubner, H., 3.2
- Gray, N., 9.2.2
 Grebille, D., 9.8
 Gregor, R. B., 4.3.4
 Green, M., 2.3, 4.2.1
 Green, R. E. Jr., 2.7, 7.1.7
 Greenbaum, A., 8.1
 Greenberg, B., 5.2
 Greene, G. C., 4.4.2
 Greene, G. L., 4.2.2
 Greenhough, T. J., 2.2, 3.4
 Greenwood, J. A., 6.1.1
 Grell, H., 9.2.2
 Grenville-Wells, H. J., 6.2
 Greville, T. N. E., 2.6.1
 Grey, D., 4.2.5
 Griebner, U., 5.3
 Griffith, J. P., 3.4
 Grigson, C. W. B., 2.4.1
 Grimmer, H., 1.3, 4.4.2
 Grimdsditch, M. H., 5.3
 Grimvall, G., 4.2.6
 Grinton, G. R., 4.3.8
 Gritsaenko, G. S., 4.3.5
 Gronsky, R., 4.3.8
 Grossi, F., 4.2.5
 Grossman, T., 4.4.2
 Grosso, J. S., 2.3
 Grosswig, S., 5.3
 Groves, G. W., 3.5
 Grubel, G., 4.2.5
 Gruber, E. E., 5.3
 Grünbaum, B., 9.1
 Gruner, S. M., 2.7, 7.1.6
 Grunes, L. A., 4.3.4
 Gschneider, K. Jr., 9.3
 Guagliardi, A., 8.6
 Gubbens, A. J., 4.3.7
 Gudat, W., 4.3.4
 Guetter, E., 7.2
 Guggenheim, S., 9.2.2
 Guidi-Morosini, C., 6.3
 Guigay, J. P., 2.8
 Guillemet, E., 7.1.6
 Guinet, P., 4.4.2
 Guinier, A., 2.3, 2.6.1, 2.6.2, 2.7, 4.3.5, 9.2.2
 Gumbel, E. J., 6.1.1
 Günther, W., 9.2.2
 Guo, C.-L., 4.2.1
 Guo, S. Y., 3.2
 Gupta, S. K., 3.5
 Gurman, S. J., 4.2.3
 Guttmann, P., 7.1.6
 Guyot, P., 2.6.2
 Gyax, F. N., 4.1
- Hausermann, D., 4.2.5
 Haag, F., 9.1
 Haas, J., 2.6.1, 2.6.2
 Habash, J., 2.2, 3.4
 Hadi, A. S., 8.5
 Haendler, H. M., 3.4
 Haga, K., 4.2.3
 Hagashi, Y., 5.3
 Hagemann, H. J., 4.3.4
 Hagen, W., 2.7
 Hägg, G., 2.2
 Hahn, Th., 1.3, 1.4, 5.3, 9.2.2, 9.7
 Haider, M., 4.3.8
 Hails, J. E., 2.2
- Hainisch, B., 2.6.1
 Hajdu, J., 3.4
 Hale, K. F., 3.5
 Hales, T. C., 9.1
 Halfon, Y., 3.4
 Hall, E. L., 5.3
 Hall, M. M. Jr., 2.3
 Halliwell, M. A. G., 5.3
 Hamacher, E. A., 2.3
 Hamelin, B., 4.4.2
 Hamid, S. A., 9.2.2
 Hamill, G. P., 2.3, 5.2
 Hamilton, J. F., 7.2
 Hamilton, L. D., 2.6.1
 Hamilton, R., 2.3, 5.2
 Hamilton, W., 2.9
 Hamilton, W. A., 2.9
 Hamilton, W. C., 2.2, 5.3, 6.4, 7.5, 8.3, 8.4, 8.7
 Hamley, I. W., 2.9
 Hamlin, R., 2.2, 3.4, 7.1.6
 Hammarling, S., 8.1
 Hanawalt, J. D., 2.3
 Hanfland, M., 4.2.5
 Hanic, F., 5.3
 Hann, R. A., 3.5
 Hanneman, R. E., 5.3
 Hansen, N. K., 4.1
 Hansen, P. G., 4.2.2
 Hanson, H. P., 4.3.3
 Hanson, I. R., 3.4
 Harada, J., 4.2.5, 7.4.2
 Harada, Y., 4.3.7, 7.2
 Harding, M. M., 2.2, 2.3, 3.1, 3.4, 5.3
 Hardman, K. D., 3.4
 Harlos, K., 3.1
 Harmon, H. E., 4.4.2
 Harmony, M. D., 9.5, 9.6
 Harper, R. G., 3.5
 Harris, J. L., 4.2.1
 Harris, K. D. M., 8.6
 Harris, L. J., 7.1.6
 Harris, N., 5.3
 Harrison, D. C., 7.1.6
 Harrison, S. C., 2.2, 7.1.6
 Harrison, W. T. A., 2.3
 Hart, M., 2.2, 2.3, 2.5.1, 2.6.1, 2.6.2, 2.7, 4.2.2, 4.2.5, 4.2.6, 4.4.2, 5.2, 5.3
 Hartl, W. A. M., 4.3.4
 Hartmann, H., 3.4
 Hartmann, W., 2.7
 Hartmann-Lotsch, I., 4.2.6
 Hartree, D. R., 4.2.6, 7.4.3
 Hartshorne, N. H., 3.1, 3.3
 Härtwig, J., 4.2.2, 5.3
 Haruta, K., 2.7
 Hasegawa, K., 7.1.6
 Hasegawa, T., 5.3
 Hashimoto, H., 2.7, 4.2.6, 4.3.8
 Hashizume, H., 2.2, 2.3, 2.7, 4.2.5, 7.1.3, 7.4.4
 Hasnain, S. S., 4.2.3
 Hastings, J. B., 2.2, 2.3, 4.2.3, 4.2.6, 7.4.4, 8.6
 Hastings, T. J., 3.4
 Haszlo, S. E., 7.1.7
 Hatton, P. D., 2.3
 Hattori, S., 4.2.6
 Haubold, H. G., 7.1.6

AUTHOR INDEX

- Haumann, J., 2.9
Hauptmann, H., 3.2
Häusermann, D., 2.5.1, 5.3
Hautecler, S., 4.4.2
Hawkes, D. J., 4.2.4
Hawthorne, F. C., 9.6
Hayakawa, K., 2.7, 6.3, 7.1.6
Hayes, C., 4.4.2
Hayter, J. B., 2.6.2, 2.9, 4.4.2
Hazen, R. M., 2.5.1, 3.4
Heal, K. M., 3.4
Heald, A., 4.2.3
Heath, M. T., 8.1
Heathman, S. P., 4.4.2
Hebert, H., 5.3
Heckingbottom, R., 5.3
Hedman, B., 7.1.5
Heesch, H., 9.1
Hehn, R., 4.4.2
Heidorn, D. B., 2.6.1
Heigl, A., 3.2
Heil, W., 4.4.2
Heine, S., 2.6.1
Heine, V., 4.3.4, 9.8
Heinrich, A. R., 9.2.2
Heinrich, K. F. J., 4.2.4, 7.1.4
Heise, H., 5.3
Heisenberg, W., 4.3.3
Hellings, G. J. A., 7.1.6
Helliwell, J. R., 2.1, 2.2, 2.3, 3.1, 3.4, 4.2.1, 4.2.3, 4.2.6, 7.1.6
Helliwell, M., 3.1
Hellkötter, H., 4.2.6
Hellner, E., 7.1.1, 8.7, 9.1
Helmholdt, R. B., 7.4.2
Hemley, R. J., 2.5.1
Henderson, R., 4.3.8
Henderson, R. J., 4.3.7
Hendricks, R. W., 2.6.1, 7.1.6
Hendricks, S., 9.2.1
Hendrickson, W. A., 3.2, 4.2.6, 8.3
Hendrix, J., 2.6.1, 7.1.6
Henins, A., 4.2.2, 5.2, 5.3
Henke, B. L., 4.2.4, 4.2.6
Hennig, M., 3.1
Henning, A., 4.2.6
Henriksen, K., 3.4
Henry, L., 4.3.4
Henry, N. F. M., 2.2, 3.1, 5.3
Hensler, D. H., 2.3
Heo, N. H., 3.4
Hepp, A., 2.3, 8.6
Herbstein, F. H., 5.3
Herino, R., 5.3
Herpin, A., 9.8
Herrman, K., 4.3.8
Herrmann, K.-H., 4.3.4, 7.2
Hertz, G., 4.2.3
Hestenes, M., 8.3
Heuss, K. L., 3.4
Hewat, A. W., 2.4.2, 5.5, 8.6
Hewett, C. A., 2.3
Hewitt, R., 4.2.3
Hey, P. D., 2.4.2, 4.4.2
Heynes, G. D., 7.1.7
Hezemans, A. M. F., 3.1
Hickling, N., 3.2
Hida, M., 4.2.3
Hidaka, M., 2.5.1, 5.2
Higashi, T., 2.2, 3.4
Higgins, S. A., 4.4.3
Higgs, H., 9.5, 9.6
Hiismäki, P., 4.4.2
Hikaru, T., 4.2.3
Hilbert, D., 9.1
Hilczler, B., 5.3
Hildebrandt, G., 2.7
Hilderbrandt, R. L., 4.3.3
Hill, R. J., 2.3
Hilleke, R. O., 2.9
Hillier, J., 4.3.4
Hilton, M. R., 4.3.7
Himes, V. L., 2.4.1, 9.7
Himmelblau, D. M., 8.4
Hines, W. A., 4.4.2
Hinze, E., 5.2, 5.3
Hirabayashi, M., 4.2.3
Hirabayshi, M., 5.3
Hiraga, K., 4.3.8
Hirai, T., 2.7, 7.1.6, 7.1.7
Hirano, T., 7.1.6
Hirota, F., 4.3.3
Hirs, C. H. W., 2.2
Hirsch, P. B., 2.3, 3.5, 4.3.6.2, 4.3.8, 5.4.1
Hirshfeld, F. L., 7.5, 8.7
Hirshfelder, J. O., 8.7
Hirvonen, J.-P., 2.9
Hitchcock, A. P., 4.3.4
Hjelm, R. P., 2.6.2
Ho, A. H., 4.2.1
Ho, M. M., 4.3.7
Hoaglin, D. C., 8.2
Hobbs, L. W., 3.5
Hock, R., 4.4.2
Hodeau, J. L., 3.1
Hodges, C. H., 4.3.4
Hodgson, K. O., 2.6.1, 4.2.3, 4.2.6, 7.1.5
Hoerni, J. A., 4.3.3
Hofer, F., 4.3.4
Hofer, M., 2.6.1
Hoff, R. W., 4.2.2
Hoffmann, H., 2.6.1, 2.6.2
Hoffmann, R., 4.3.4
Hofmann, A., 4.2.1
Hofmann, D., 4.4.2
Hofmann, E. G., 2.3
Høghøj, P., 4.4.2
Hohberger, H. I., 4.3.4
Hohenberg, P., 8.7
Hohlwein, D., 3.4, 7.3
Höhne, E., 9.2.2
Høier, R., 4.3.7, 5.4.2, 8.8
Holden, N. E., 4.4.4
Holladay, A., 8.7
Holland, F. M., 3.5
Holmes, K. C., 2.6.1, 3.4
Holmestad, R., 4.3.7, 8.8
Holmshaw, R. T., 7.1.6
Holt, S. A., 4.2.5
Holý, V., 2.9, 5.3
Holzapfel, W. B., 2.5.1
Hölzer, G., 4.2.2, 5.3
Hom, T., 5.3
Honest, A. P., 3.5
Hong, S.-H., 5.3
Honjo, G., 2.4.1, 9.2.1
Honkimaki, V., 4.2.1
Hönl, H., 4.2.6
d'Hooghe, P., 4.4.2
Hope, H., 3.4
Hopf, R., 7.1.6
Hoppe, W., 2.6.2
Horisberger, M., 4.4.2
Horita, Z., 4.3.7, 8.8
Horiuchi, S., 4.3.8
Hornstra, J., 3.4
Horota, F., 4.3.3
Horstmann, M., 2.4.1
Horváth, J., 5.3
Hosemann, R., 2.6.1, 2.7
Hosokawa, N., 5.3
Hosoya, S., 2.5.1, 2.8, 4.2.6, 5.2, 9.2.1
Hossfeld, F., 2.6.1, 2.6.2, 4.4.2
Hovmöller, S., 3.4, 4.3.7
Howard, A., 2.2
Howard, A. J., 7.1.6
Howard, C. J., 2.4.2
Howard, S. A., 2.3
Howard, W., 9.2.2
Howerton, R. J., 4.2.4, 4.2.6, 7.4.3
Howes, M. J., 7.1.6
Howie, A., 3.5, 4.3.6.2, 4.3.7, 4.3.8, 5.4.1
Hoya, H., 3.4
Hoylaerts, M., 2.6.1
Hsiang, W. Y., 9.1
Hsu, B. T., 3.1
Hu, H.-C., 6.2
Huang, D. X., 4.3.8
Huang, T. C., 2.3, 5.2, 8.6
Hubbard, C., 2.3, 5.2
Hubbard, C. R., 2.3, 5.1, 5.2, 5.3
Hubbard, K. M., 2.9
Hubbard, S. T., 2.6.1
Hubbell, J. H., 4.2.3, 4.2.4, 4.2.6, 7.4.3
Huber, H., 3.4
Huber, P. J., 8.2
Huber, R., 6.3
Huffman, F. N., 4.2.2
Huggins, F. G., 2.3
Hughes, D. J., 4.4.2
Hughes, G., 7.1.6
Hughes, J. W., 7.1.2, 7.5
Hughes, T. E., 5.2
Huke, K., 4.2.1
Hull, A. W., 2.3
Hüller, A., 6.1.1
Hulme, R., 5.3
Hulubei, H., 4.2.2
Humboldt, H., 4.4.2
Huml, K., 5.3
Hummelink, T., 9.5, 9.6
Hummelink-Peters, B. G., 9.5, 9.6
Humphreys, C. J., 4.3.6.2, 8.8
Hundt, R., 9.4, 9.5, 9.6
Hunter, B., 8.6
Hunter, J. S., 8.1
Hunter, W. G., 8.1
Hustache, R., 2.8
Hutchings, M. T., 4.4.6
Hutchinson, J. L., 4.3.8
Hutchison, J. L., 9.2.2
Huxham, M., 3.5
Huxley, H. E., 7.1.6
d'Huysser, A., 4.2.3
Huyton, A., 5.2
Huzinaga, S., 6.1.1
Hwang, S. R., 4.4.2
Hyde, S. T., 9.1
Hyman, A., 3.5
Hyogah, H., 4.2.6
I'anson, K. J., 2.6.1
Ibach, H., 4.3.4
Ibel, K., 2.4.2, 2.6.1, 2.6.2, 4.4.2, 7.3
Ibers, J. A., 4.3.1
Ichimiya, A., 4.3.7, 8.8
Ieviš, A., 5.3
Ihara, H., 4.2.3
Ihringer, J., 3.4
Iijima, S., 4.3.8, 9.2.2
Iijima, T., 4.3.3
Ikeda, S., 4.2.3
Ikhlef, A., 7.1.6
Illini, Th., 7.4.2
Imada, K., 3.4
Imai, K., 5.3
Imamov, R. M., 2.4.1, 5.3
Immirzi, A., 8.6
Imura, T., 5.3
Inagaki, Y., 7.3
Inagami, T., 3.4
Incoccia, L., 4.2.3
Indelicato, P., 4.2.2
Ingrin, J., 9.2.2
Inkinen, O., 2.3
Inokuti, M., 4.3.4
In't Veld, G. A., 7.1.6
Inzaghi, D., 5.3
Irie, K., 5.3
Isaacs, N. W., 3.4, 9.5, 9.6
Isaacson, M., 4.3.4
Isaacson, M. S., 4.3.4
Isherwood, B. J., 5.3
Ishida, K., 4.2.6
Ishigaki, A., 2.5.1
Ishiguro, T., 4.2.3
Ishikawa, T., 2.7, 4.2.5, 4.2.6
Ishimura, T., 4.2.1, 4.2.3
Ishizawa, N., 3.4
Ishizuka, K., 4.3.8, 7.2
Isoda, S., 7.2
Isokawa, K., 5.3
Isozaki, Y., 7.1.6
Israel, H., 4.2.6
Israel, H. I., 4.2.4
Ito, M., 2.7, 7.1.6, 7.1.8
Ito, T., 9.2.2
Ivanov, A. B., 7.1.6
Iwai, S., 3.4
Iwanczyk, J., 7.1.4
Iwanczyk, J. S., 7.1.5
Iwasaki, N., 4.2.6
Izdkovskaya, T. V., 9.2.2
Jack, A., 8.3
Jäckel, K.-H., 5.3
Jackson, D. F., 4.2.4
Jacob, M., 9.7
Jacobé, J., 2.4.2, 7.3
Jacobs, L., 2.7, 4.2.2
Jacobs, S., 4.2.1
Jacobson, R. A., 3.4
Jacrot, B., 2.6.2
Jagner, S., 9.2.2

AUTHOR INDEX

- Jagodzinski, H., 2.3, 3.4, 9.2.1, 9.2.2
 Jahn, H. A., 7.4.2
 Jain, P. C., 9.2.1
 James, R. W., 4.2.6, 5.3, 6.3, 7.4.2
 James, V. J., 7.1.6
 James, W. J., 5.3
 Jancarik, J., 3.1
 Jänig, G. R., 2.6.1
 Janin, J., 3.1
 Janner, A., 9.8
 Janot, C., 2.6.2
 Jansen, J., 3.5
 Jansonius, J. N., 3.1
 Janssen, R. W., 4.3.4
 Janssen, T., 9.8
 Jap, B. K., 4.3.7, 4.3.8
 Jarchow, O., 9.2.2
 Järvinen, M., 2.3
 Jäschke, J., 5.3
 Jauch, J. M., 7.4.3
 Jauch, W., 2.5.2
 Jaynes, E. T., 8.2
 Jeffery, J. W., 2.2, 3.1, 3.4
 Jeffrey-Hay, P., 6.1.1
 Jeitschko, W., 2.3
 Jelinsky, P., 7.1.6
 Jelley, E. E., 3.3
 Jellinek, F., 9.8
 Jelonek, S., 8.6
 Jenkins, R., 2.3, 4.2.1, 5.2
 Jennings, L. D., 4.2.3, 4.2.5, 7.4.4
 Jensen, L. H., 2.2, 3.1, 3.4, 5.3
 Jensen, T., 2.5.1
 Jephcoat, A. P., 2.5.1
 Jepsen, O., 4.3.4
 Jesson, D. E., 4.3.8
 Jiang, S.-S., 2.7
 Johann, H. H., 2.3
 Johansson, T., 2.3
 Johnson, A. L., 4.3.4
 Johnson, A. W. S., 4.3.8, 5.4.1, 5.4.2
 Johnson, C. A., 9.2.1
 Johnson, C. K., 6.1.1, 8.3
 Johnson, D., 4.3.4
 Johnson, D. E., 4.3.4
 Johnson, D. W., 4.3.4
 Johnson, G. G. Jr., 2.4.1
 Johnson, J. E., 3.4
 Johnson, K. H., 4.3.4
 Johnson, L. N., 2.2, 3.1, 3.4
 Johnson, L. R., 5.3
 Johnson, M. W., 2.5.2
 Johnson, O., 9.7
 Johnson, R. W., 8.2
 Johnson, W. R., 4.2.2
 Johnston, D. F., 8.7
 Johnston, J., 3.2
 Jones, A., 3.4
 Jones, A. R., 2.6.1
 Jones, E. Y., 3.4
 Jones, P. M., 4.3.6.2, 5.4.2
 Jones, R. C., 7.1.6
 Jones, R. M., 9.2.1
 Jong, W. F. de, 6.2
 Jonson, B., 4.2.2
 Jorde, C., 2.6.1
 Jorgensen, J. D., 2.5.2, 5.5, 8.6
 Jørgensen, J.-E., 6.4
 Jostsons, A., 4.3.7
 Jouffrey, B., 4.3.4
 Joy, D. C., 4.2.3, 4.3.4
 Jucha, A., 7.1.6
 Jurnak, F., 3.1
 Kaat, E. de, 5.3
 Kabra, V. K., 9.2.1
 Kabsch, W., 3.4
 Kaesberg, P., 2.6.1
 Kaesberg, P. J., 2.6.1
 Kafadar, K., 8.5
 Kahn, R., 2.2, 3.4, 7.1.6
 Kahovec, L., 2.6.1
 Kainuma, Y., 8.8
 Kaiser, A., 7.1.7
 Kaiser, W., 4.4.2
 Kajantie, K., 7.4.3
 Kakinoki, J., 9.2.1
 Kakudo, M., 4.3.5
 Kakuta, N., 4.3.3
 Kalata, K., 7.1.6
 Kalenik, J., 3.1
 Kalinin, Y. G., 4.2.1
 Kalman, Z. H., 2.5.1, 5.3, 9.2.1
 Kalnajs, J., 5.3
 Kalus, J., 2.6.1, 2.6.2
 Kamada, K., 2.8
 Kambe, K., 4.3.4, 4.3.7, 4.3.8
 Kaminaga, U., 7.4.4
 Kamino, N., 4.2.3
 Kamiya, K., 7.1.8
 Kamiya, N., 7.1.6
 Kammerer, O. F., 4.4.2
 Kampermann, S. P., 6.4
 Kane, P. P., 4.2.4, 4.2.6
 Kaneko, F., 9.2.2
 Kantor, B., 5.3
 Kaplow, R., 2.3, 6.3
 Kappler, E., 2.7
 Karamura, T., 6.3
 Karellas, A., 7.1.6
 Karen, V. L., 9.7
 Kariuki, B. M., 2.3, 3.1
 Karle, I. L., 4.3.3
 Karle, J., 4.2.6, 4.3.3
 Karlsson, R., 3.1
 Karnatak, R. C., 4.3.4
 Karplus, M., 3.4
 Kasai, N., 4.3.5
 Kasman, Ya. A., 4.4.2
 Kasper, J. S., 6.2, 9.1, 9.2.1, 9.7
 Katayama, C., 6.3
 Kato, A., 9.2.2
 Kato, H., 7.1.6, 7.1.8
 Kato, N., 2.7, 6.3
 Katoh, H., 4.2.6
 Katoh, T., 7.2
 Katsube, Y., 3.4
 Kaucic, V., 3.1
 Kaufmann, E. N., 4.1
 Kavinski, B. M., 8.6
 Kawaminami, M., 5.2, 5.3
 Kawamura, T., 2.7, 4.2.5, 7.1.7
 Kawamura, T. W., 7.1.6
 Kawasaki, M., 4.3.8
 Kawasaki, T., 4.2.1
 Kawata, H., 5.3
 Kay, M. I., 6.1.1
 Keast, D. J., 3.5
 Keeney, R. B., 4.3.4, 7.2
 Keijser, Th. H. de, 2.3, 5.2
 Keil, P., 4.3.4
 Kellar, J. N., 2.3
 Keller, H. L., 5.3
 Kelley, D. M., 3.4
 Kelley, M. H., 4.3.3
 Kelly, A., 3.5
 Kelly, E. H., 5.2
 Kelly, P. M., 4.3.7
 Kendall, M. G., 6.1.1
 Kendrick, H., 6.2
 Kennard, C. H. L., 3.4
 Kennard, O., 9.5, 9.6, 9.7
 Kephart, J. O., 4.2.1
 Kessler, E., 4.2.2
 Kessler, E. G., 4.2.2, 5.2
 Kessler, E. G. Jr., 4.2.2
 Kessler, J., 4.3.3
 Ketkar, S. N., 4.3.3
 Keve, E. T., 8.5
 Khabakhshev, A. G., 7.1.6
 Kharitonov, Yu. I., 4.2.4
 Kheiker, D. M., 5.3, 7.1.6, 7.5
 Khejker, D. M., 5.2
 Khomyakov, A. P., 9.2.2
 Kihara, H., 4.3.7
 Kihn, Y., 4.3.4
 Kikuta, S., 2.7, 4.2.5
 Killat, U., 4.3.4
 Killean, R. C. G., 7.5
 Kim, S., 3.4
 Kim, S.-H., 3.1
 Kim, Y. K., 4.2.2
 Kim, Y. S., 8.7
 Kimura, M., 4.3.3
 Kimura, T., 4.2.3
 Kincaid, B. M., 2.2, 4.1, 4.2.3
 Kind, R., 9.8
 King, H. E. Jr., 2.3
 King, H. W., 2.3, 5.2
 King, J. S., 6.2
 King, M. V., 3.4, 6.1.1
 King, Q. A., 4.3.2, 8.8
 Kirfel, A., 4.2.6
 Kirisits, M. J., 3.1
 Kirk, D., 5.3
 Kirkham, A. J., 5.3
 Kirkland, A., 4.3.8
 Kirkpatrick, H., 2.3
 Kirkpatrick, H. B., 3.5
 Kirkpatrick, P., 4.2.1
 Kirsche, R. G., 2.6.1, 2.6.2
 Kishimoto, S., 7.1.8
 Kishino, S., 2.7, 5.3
 Kisker, E., 4.3.4
 Kissel, L., 4.2.4, 4.2.6
 Kisztenick, W., 5.3
 Kitagawa, Y., 9.2.2
 Kitaigorodskii, A. I., 9.7
 Kitaigorodsky, A. I., 9.1, 9.7
 Kitajgorodskij, A. I., 9.7
 Kitano, T., 2.7
 Kittner, R., 5.3
 Kjeldgaard, M., 2.6.2
 Klapper, H., 1.3
 Kleb, R., 2.9
 Klein, A. G., 4.4.4
 Klein, O., 7.4.3
 Klemperer, O., 4.3.4
 Kliewer, K., 4.3.4
 Klimanek, P., 4.4.2
 Kloos, G., 2.3
 Kloot, N. H., 8.4
 Klug, A., 4.1
 Klug, H. P., 2.3, 3.4, 5.1, 6.2
 Knibbeler, C. L. C. M., 7.1.6
 Knipping, P., 2.1, 2.2
 Knoll, W., 2.6.2
 Knop, W., 2.6.2
 Knop, W. E., 1.4
 Knox, J. R., 3.4
 Ko, T.-S., 3.4
 Kobayakawa, M., 4.2.1
 Kobayashi, J., 5.3
 Kobayashi, K., 4.2.6, 4.3.8
 Kobayashi, M., 9.2.2
 Kobayashi, T., 4.3.8, 7.2
 Kobayashi, Y., 4.2.6
 Koch, A., 7.1.6
 Koch, B., 4.2.4
 Koch, E., 1.1, 1.2, 1.3, 9.1
 Koch, E. E., 4.2.1
 Koch, M., 4.4.2
 Koch, M. H. J., 2.6.1, 2.6.2
 Koch, M. J. H., 7.1.6
 Koehler, W. C., 9.8
 Koester, L., 4.4.4
 Kogan, V. A., 5.2
 Kogiso, M., 4.3.7, 5.4.2
 Koh, F., 6.3
 Kohl, D. A., 4.3.3
 Kohl, H., 4.3.2
 Kohler, H., 2.3, 7.4.2
 Kohler, T. R., 7.1.4
 Kohn, W., 4.2.6, 8.7
 Kohra, K., 2.2, 2.7, 4.2.3, 4.2.5
 Koidl, P., 4.3.4
 Koike, H., 4.3.8
 Kolpakov, A. V., 4.1
 Komarov, F. F., 4.2.5
 Komem, Y., 5.3
 Komoda, T., 4.3.8
 Komura, Y., 9.2.1
 Konaka, S., 4.3.3
 Kondrashkina, E. A., 5.3
 Konnert, J. H., 3.1, 8.3
 Kopfmann, G., 6.3
 Kopp, M., 7.1.6
 Kopp, M. K., 7.3
 Koptsik, V. A., 1.4, 9.8
 Kordes, E., 9.3
 Korekawa, M., 9.8
 Koritsanszky, T., 8.7
 Korneev, D. A., 4.4.2
 Korolev, V. D., 4.2.1
 Korytár, D., 5.3
 Koshiji, N., 5.3
 Kossel, W., 5.3
 Kostarev, A. L., 4.2.3
 Kosten, K., 3.4
 Kosterz, G., 2.6.2
 Kostroun, V. O., 2.7
 Kosugi, N., 4.3.4
 Kottke, T., 3.4
 Kovalchuk, M. V., 5.3
 Kovev, E. K., 5.3
 Kowalczyk, R., 5.3
 Kowalski, M., 9.2.2
 Koyama, K., 7.1.6
 Kozaki, S., 2.3, 4.2.1, 4.2.6
 Kraft, S., 4.2.2

AUTHOR INDEX

- Krahl, D., 4.3.4, 4.3.7, 7.2
 Krammer, M. R., 7.1.6
 Kramers, H. A., 4.2.1
 Kranold, R., 2.6.1
 Kratky, C., 3.4
 Kratky, O., 2.6.1, 2.6.2
 Krause, M. O., 6.3
 Krauss, M., 8.7
 Krec, K., 7.4.2
 Kreinik, S., 7.1.7
 Kretschmer, R.-G., 9.2.2
 Krigbaum, W. R., 2.6.1
 Krijgsman, P. C. J., 2.6.2
 Krinari, G., 4.3.5
 Krinary, G. A., 4.3.5
 Krishna, P., 9.2.1, 9.2.2
 Krivanek, O. L., 4.3.4, 4.3.7, 4.3.8, 7.2, 8.8
 Kröber, R., 2.6.1
 Kroeger, K. S., 3.4
 Kröger, E. Z., 4.3.4
 Kroll, N. M., 4.2.2
 Kronig, R. de L., 4.2.3
 Kroon, J., 3.1
 Kruger, E., 4.4.2
 Kruit, P., 4.3.4
 Krumpal, M., 2.6.2
 Kshevetsky, S. A., 5.3
 Kuban, R.-J., 9.2.2
 Kubena, J., 2.9, 5.3
 Kucharczyk, D., 5.3, 9.8
 Kuchitsu, K., 9.2.2
 Kuczkowski, R. L., 9.5, 9.6
 Kudo, S., 5.3
 Kudriashov, V. A., 4.4.2
 Kuetsgens, U., 4.2.2
 Kugasov, A. G., 4.4.2
 Kügler, F. R., 2.6.1
 Kuh, E., 8.2, 8.5
 Kühl, W., 2.7
 Kühlbrandt, W., 4.3.7
 Kuhn, K., 4.2.1
 Kuhs, W. F., 6.1.1
 Kujawa, S., 7.2
 Kulda, J., 4.4.2
 Kulenkampff, H., 4.2.1
 Kulipanov, G. N., 4.2.1
 Kulpe, S., 3.4
 Kumachov, M. A., 4.2.1
 Kumada, J., 7.1.6
 Kumakov, M. A., 4.2.5
 Kumaraswamy, S., 3.4
 Kumosinski, T. F., 2.6.1
 Kündig, W., 4.1
 Kundrot, C. E., 3.2, 3.4
 Kuntz, I. D. Jr, 3.4
 Kunz, A. B., 4.3.4
 Kunz, C., 4.1, 4.2.1, 4.3.4
 Kunze, G., 2.3
 Küppers, H., 5.3
 Küppers, J., 4.1
 Kupriyanov, M. F., 5.2
 Kurbatov, B. A., 5.3
 Kurittu, J., 7.4.2
 Kuriyama, M., 2.7, 7.1.7
 Kuriyama, T., 7.1.7
 Kuriyan, J., 3.4
 Kurki-Suonio, K., 6.1.1
 Kuroda, H., 4.2.3, 4.3.4
 Kuroda, K., 2.8
 Kuroiwa, T., 8.8
 Kurz, R., 7.3
 Kusev, S. V., 4.2.1
 Küster, A., 3.4
 Kutschabsky, L., 9.2.2
 Kutzler, F. W., 4.2.3
 Kuyatt, C. E., 4.2.2, 4.3.4
 Kuz'min, R. N., 4.1, 7.4.3
 Kuznetsov, P. I., 6.1.1
 Kwick, Å., 5.3
 Kwong, P. D., 3.2
 Laan, G. van der, 4.3.4
 Laban, G., 9.2.2
 Labergerie, D., 4.2.5
 Labzowsky, L., 4.2.2
 Laclare, J. L., 4.2.1
 Ladd, M. F. C., 3.1
 Ladell, J., 2.3, 5.2
 Ladner, J. E., 3.1
 Lafferty, W. J., 9.5, 9.6
 Lagasse, A., 3.5
 Laggner, P., 2.6.1
 Lagomarsino, S., 2.8
 Laguittou, D., 5.2
 Lähteenmäki, I., 2.5.1
 Laine, E., 2.5.1
 Lairson, B. M., 2.2
 Lambert, N., 2.6.1
 Lamoreaux, R. D., 7.1.6
 Lampton, M., 7.1.6
 Landau, L., 4.3.4
 Lander, G., 4.4.1
 Landre, J. K., 2.7
 Lang, A. R., 2.3, 2.7, 5.3
 Lang, W., 4.2.2
 Lange, B. A., 3.4
 Lange, G., 3.4
 Langer, J. A., 2.6.2
 Langford, J. I., 2.3, 5.2, 6.2, 7.1.2
 Langridge, R., 2.6.1
 Lanz, H. Jr, 3.2
 Lapington, J. S., 7.1.6
 La Placa, S. J., 8.7
 LaRock, J. G., 4.4.2
 Larsen, E. S. Jr, 3.3
 Larsen, F. K., 3.4
 Larsen, P. K., 4.3.8
 Larson, A. C., 3.4, 8.7
 Larson, B. C., 5.3
 Lartigue, C., 4.4.2
 Laue, M. von, 2.1, 2.2
 Lauer, R., 4.2.2, 5.3
 Laugier, J., 3.4
 Laurie, V. W., 9.5, 9.6
 Laves, F., 9.1
 Lawrance, J. L., 2.7
 Lea, K., 4.2.1
 Lea, K. R., 4.2.6
 Leapman, R. D., 4.2.3, 4.3.4
 Leber, M. L., 4.3.7
 Leboucher, P., 7.1.6
 Lebugle, A., 4.2.2
 Leciejewicz, J., 2.5.2
 Leduc, M., 4.4.2
 Lee, B., 6.3
 Lee, J. S., 4.3.3
 Lee, P., 4.2.4, 4.2.6
 Lee, P. A., 4.1, 4.2.3
 Lefauchaux, F., 3.1
 LeGalley, D. P., 2.3
 Legrand, E., 4.4.2
 Lehmann, A., 5.3
 Lehmann, M. S., 2.3, 3.4, 7.1.3
 Lehmpfuhl, G., 4.3.7, 4.3.8, 8.8
 Leifer, K., 4.4.2
 Leising, G., 4.3.4
 Lele, S., 9.2.1
 Lemonnier, M., 2.2, 7.1.6
 Lengeler, B., 4.2.3, 4.2.6
 Lenglet, M., 4.2.3
 Leon, R., 4.2.5
 Leonardsen, E., 9.2.2
 Leopold, H., 2.6.1
 LePage, Y., 1.3, 5.4.1
 Le Peltier, F., 4.2.3
 Lerche, M., 5.3
 Lereboures, B., 4.2.3
 Leroux, J., 4.2.4
 Leszczyński, M., 3.4, 5.3
 Leung, P. C., 8.7
 Levi, A., 7.1.4
 Levine, I. L., 8.7
 Levine, M. R., 6.3
 Levinger, J. S., 4.2.4
 Levitt, M., 8.3
 Levy, H. A., 3.4, 5.3, 6.1.1, 8.3
 Lévy, P., 6.1.1
 Lewis, M. H., 3.5
 Lewis, O., 4.2.1
 Lewis, R., 7.1.6
 Lewis, S. J., 3.4
 Lewit-Bentley, A., 3.1
 Ley, L., 4.2.2
 Li, F. H., 4.3.8
 Li, J. Q., 4.3.8
 Li, Q., 4.2.1
 Li, Y., 7.1.6
 Liang, K. S., 2.3
 Liberman, D., 4.2.4, 4.2.6
 Liberman, D. A., 4.2.6
 Lichte, H., 4.3.8
 Lider, V. V., 5.3
 Lidin, S., 9.7
 Liebafsky, H. A., 4.2.4
 Liesen, D., 4.2.2
 Lietzke, R., 2.6.2
 Lifchitz, E., 4.3.4
 Lifshitz, R., 9.8
 Lim, G., 2.3
 Lim, G. S., 5.2, 5.3
 Lima-de-Faria, J., 9.1
 Liminga, R., 5.3
 Lindau, I., 4.2.4, 7.4.4
 Lindgaard-Andersen, A., 2.5.1
 Lindemann, R., 2.3
 Linderstrom-Lang, K., 3.2
 Lindgren, I., 4.2.2
 Lindhard, J., 4.3.4
 Lindley, P., 3.4
 Lindley, P. F., 3.1, 3.2, 3.4
 Lindner, P., 2.6.2
 Lindner, T., 4.3.4
 Lindroth, E., 4.2.2
 Lindstrom, R. M., 4.4.2
 Lippman, R., 3.4
 Lipps, F. W., 7.4.3
 Lipscomb, W. N., 6.1.1
 Lipson, H., 2.2, 2.3, 5.2, 5.3, 6.2, 9.8
 Lischka, K., 2.9
 Lisher, E. J., 4.4.5
 Lisoivan, V. I., 5.3
 Liss, K.-D., 4.4.2
 Litrenta, T., 4.4.2
 Liu, H., 7.1.6
 Liu, J. W., 4.3.3
 Liu, L., 4.3.8, 7.2
 Livesey, A. K., 8.2
 Livingood, J. J., 4.3.4
 Lloyd, K. H., 5.3
 Lobashov, V. M., 4.4.2
 Löchner, U., 3.4
 Loeb, A., 9.1
 Long, D. C., 7.1.6
 Long, N., 4.3.8
 Lonsdale, K., 2.2, 5.3, 6.2
 Lontie, R., 2.6.1
 Looijenga-Vos, A., 9.8
 Loopstra, B. O., 2.4.2
 Lorber, B., 3.1
 Lorenz, G., 3.4
 Lotsch, H., 4.2.6
 Lotz, B., 3.5
 Louër, D., 2.3, 5.2, 8.6
 Lourie, B., 2.2
 Lovas, F. J., 9.5, 9.6
 Love, G., 4.2.1
 Lovesey, S. W., 4.1, 6.1.2, 7.4.3, 8.7
 Lovey, F. C., 4.3.8
 Low, B. W., 3.2
 Lowde, R. D., 2.5.2, 4.4.2, 6.4
 Lowe, B. M., 2.3
 Lowenthal, S., 7.1.6
 Lowitzsch, K., 2.3
 Lowrance, J. L., 7.1.6
 Lucas, W., 4.2.2, 5.3
 Lucht, M., 5.3
 Luft, J., 3.1
 Luft, J. R., 3.1
 Luger, P., 3.4, 5.3
 Łukaszewicz, K., 5.3
 Lukehart, C. M., 2.5.2
 Lum, G. K., 4.2.2
 Lumb, D. H., 7.1.6
 Lund, L., 4.2.1
 Luo, M., 3.4
 Lushchikov, V. I., 4.4.2
 Lutterotti, L., 5.2
 Lutts, A., 5.3
 Lutts, A. H., 5.3
 Lutz, H. D., 2.3
 Luzzati, V., 2.6.1, 2.6.2
 Lynch, D. F., 4.3.6.1, 4.3.8
 Lynch, F. J., 7.3
 Lynch, J., 4.2.3, 4.3.8
 Lynn, J. E., 4.4.4
 Lytle, F. W., 4.2.3, 4.3.4
 Lyutza, V. G., 5.3
 Ma, H., 4.3.4
 Ma, Y., 4.2.3, 4.3.7, 8.8
 Maaskamp, H. J., 7.1.6
 MacGillavry, C. H., 3.1, 4.2.4, 4.3.1, 8.8
 Machado, W. G., 2.7
 Machin, K. J., 3.4
 Machin, P. A., 3.4
 Machlan, L. A., 5.3
 Mack, B., 2.4.2
 Mack, B. J., 4.4.2

AUTHOR INDEX

- Mack, M., 2.3, 5.2, 7.5
 Mackay, A. L., 1.4, 3.4, 6.2
 Mackay, K. J. H., 5.3
 Mackenzie, J. K., 6.1.1, 7.5
 Macrae, C. F., 9.7
 Madar, R., 4.4.2
 Madariaga, G., 9.8
 Madsen, I. C., 2.3
 Maeda, H., 4.2.3
 Maeder, D. L., 3.1
 Magerl, A., 4.4.2
 Magorrian, B. G., 2.7
 Maher, D., 4.2.3
 Maher, D. M., 4.3.4
 Mai, Z.-H., 2.7
 Maier-Leibnitz, H., 4.4.2
 Main, P., 5.3
 Mair, S. L., 4.2.6, 6.1.1
 Maistrelli, P., 5.2
 Majkrzak, C. F., 2.9, 4.4.2
 Makarova, I. P., 3.1
 Makepeace, A. P. W., 2.7
 Maki, A. G., 9.5, 9.6
 Maki, M., 5.3
 Makita, Y., 4.3.8
 Makovický, E., 9.2.2
 Makowski, I., 3.4
 Malgrange, C., 2.8, 7.3
 Malik, S. S., 2.9
 Malina, R. F., 7.1.6
 Malinowski, A., 2.6.2
 Malinowski, M., 3.4, 5.3
 Mallett, J. H., 4.2.3, 4.2.4
 Malmros, G., 2.3, 8.6
 Malzfeldt, W., 4.2.6
 Mamy, J., 4.3.5
 Mana, G., 4.2.2
 Mann, J. B., 4.2.4, 4.3.1, 4.3.3, 6.1.1, 7.4.3
 Mannami, M., 4.3.8
 Manne, R., 4.2.1
 Manninen, S., 7.4.3
 Manoubi, T., 4.3.4
 Mantler, M., 5.2
 Manzke, R., 4.3.4
 Mao, H. K., 2.5.1
 Marchant, J. C. J., 7.2
 Marcus, M., 4.2.3
 Mardin, K. V., 6.1.1
 Mardix, S., 2.7
 Maréchal, J., 4.4.2
 Marezio, M., 3.1
 Marks, L., 4.3.8
 Marmeggi, J. C., 2.5.2
 Marr, G. V., 4.2.1
 Marsh, D. J., 3.4
 Marsh, P., 5.3
 Marsh, R. E., 5.3, 8.3
 Marshall, R. C., 9.2.1
 Marshall, W., 4.1, 8.7
 Martens, G., 4.2.3
 Mårtensson, N., 4.2.2
 Marthinsen, K., 4.3.7, 8.8
 Martin, C., 7.1.6
 Martinez-Carrera, S., 10
 Martini, M., 4.2.3
 Maruani, J., 8.7
 Maruyama, E., 7.1.6
 Maruyama, H., 2.7, 7.1.6, 7.1.7
 Maruyama, X. K., 4.2.1
 Marvin, D. A., 2.6.1
 Marx, D., 4.4.2
 Marxreiter, J., 3.4
 Marzolf, J. G., 4.2.2, 5.3
 Masaki, N., 2.8
 Masciocchi, N., 2.3, 8.6
 Maslen, E. N., 4.2.6, 6.1.1, 6.3
 Maslen, V. M., 4.3.4
 Mason, B., 3.2
 Mason, I. M., 7.1.6
 Massa, L., 8.7
 Massalski, T. B., 2.3, 4.3.5
 Massey, H. S. W., 4.3.3, 4.3.4
 Masuda, K., 4.2.1
 Materlik, G., 2.2, 2.7, 4.2.3, 4.2.6
 Mateu, L., 2.6.2
 Mathews, F. S., 3.4, 6.3
 Mathias, H. G., 3.4
 Mathieson, A. McL., 7.4.4
 Matsuhata, H., 4.3.7, 8.8
 Matsui, J., 2.7, 7.1.7
 Matsumoto, T., 9.1
 Matsumura, S., 8.8
 Matsunaga, K., 5.3
 Matsushima, I., 7.1.6
 Matsushita, T., 2.2, 2.7, 4.2.3, 4.2.5, 7.1.8, 7.4.4
 Matsuura, U., 9.2.2
 Matthewman, J. C., 8.6
 Matthews, B. W., 3.1, 3.2, 3.4
 Matthews, D., 2.2
 Matthews, G. D., 4.2.2
 Matzfeld, W., 4.2.3
 Mauer, F. A., 5.2, 5.3
 Maurice, J. L., 4.3.4
 Mawhorter, R. J., 4.3.3
 Max, N., 3.4
 May, C., 4.4.2
 May, R. P., 2.6.2
 May, W., 2.5.1
 Mayer, J., 4.3.7, 8.8
 Mayer, J. W., 4.1
 Mayers, D. F., 4.3.4
 Mazzarella, L., 3.1
 McCallum, B., 4.3.8
 McClelland, J. J., 4.3.3
 McConnell, C. H., 3.5
 McConnell, J. D. C., 9.8
 McCourt, M. P., 4.3.8
 McCrory, L. R., 4.2.1
 McCusker, L., 2.3, 8.6
 McDermott, G., 3.1
 McKeever, B., 3.4
 McKenney, A., 8.1
 McKie, C., 2.2
 McKie, D., 2.2
 McKinsty, H. A., 3.4
 McLarnan, T. J., 9.2.2
 McLaughlin, P. J., 3.4
 McLean, A. D., 4.3.3, 6.1.1
 McLean, R. S., 4.3.3
 McMahan, M., 4.2.5
 McMahan, M. I., 2.3, 2.5.1
 McMann, R. H., 7.1.7
 McMaster, R. C., 7.1.7
 McMaster, W. H., 4.2.3, 4.2.4
 McMeeking, R., 2.3
 McMullan, D., 4.3.4
 McMullan, R. K., 6.4
 McMurdie, H. F., 3.4
 McNeely, J. B., 5.3
 McNeill, K. M., 7.1.6
 McPherson, A., 3.1, 3.4
 McSweeney, S., 2.2
 Meardon, B. H., 4.4.2
 Medarde, M., 4.4.2
 Mees, C. E. K., 7.1.1
 Megaw, H. D., 5.3
 Mei, R., 4.2.3
 Meier, B. H., 5.5
 Meier, F., 2.7
 Meier, J., 4.4.4
 Meier, P. F., 4.1
 Meieran, E. S., 2.7
 Meijer, G., 9.2.2
 Meisheng, H., 4.3.8
 Meister, H., 4.4.2
 Melgaard, D. K., 2.4.1
 Melkanov, M. A., 4.3.3
 Melle, W., 5.3
 Mellema, J. E., 2.6.2
 Mellini, M., 9.2.2
 Melmore, S., 9.1
 Mendelsohn, L. B., 4.3.3, 7.4.3
 Mendelssohn, M. J., 5.3
 Menke, H., 2.6.1
 Menotti, A. H., 4.4.2
 Menter, J. W., 4.3.8
 Menzel, M., 7.2
 Meriel, P., 2.6.2, 9.8
 Méring, J., 4.3.5
 Merisalo, M., 2.3, 6.1.1, 7.4.2
 Merlini, A. E., 5.3
 Merlino, S., 9.2.2
 Merritt, E. A., 7.1.6
 Merritt, F. C., 7.3
 Merwin, H. E., 3.3
 Merz, K. M., 9.2.1
 Merzbacher, E., 2.9
 Mesquita, A. H. G. de, 9.2.1
 Messerschmidt, A., 3.4, 7.1.6
 Metcalf, P., 7.1.6
 Metchnik, V., 4.2.1
 Metherell, A. J. F., 4.3.4
 Metoki, N., 2.9
 Metzger, T. H., 4.3.7, 8.8
 Meuth, H., 4.2.3
 Meyer, A. J., 5.3
 Meyer, C. E., 4.3.7
 Meyer, G., 2.4.1
 Meyer, H., 4.3.3
 Meyer-Ilse, W., 7.1.6
 Meyrowitz, R., 3.2, 3.3
 Meysner, L., 5.3
 Mezei, F., 4.4.2
 Mezey, P. G., 9.7
 Michalowicz, A., 2.8
 Midgley, H. G., 3.2
 Midgley, P. A., 4.3.7, 8.8
 Mighell, A. D., 2.4.1, 5.2, 9.7
 Mihama, K., 2.4.1
 Mikhailuk, I. P., 5.3
 Mikhailchenko, V. P., 5.3
 Mikke, K., 2.5.2
 Mikol, V., 3.1
 Milch, J. R., 7.1.6
 Mildner, D. F. R., 4.4.2, 7.3
 Miles, M. J., 2.6.1
 Milledge, H. J., 4.2.4, 5.3
 Miller, A., 2.6.2
 Miller, B., 4.3.3
 Miller, B. R., 4.3.3
 Miller, K. J., 8.7
 Miller, P. H., 4.4.2
 Millhouse, A. H., 7.4.3
 Million, G., 7.1.6
 Mills, D. L., 4.3.4
 Milne, A. D., 2.7
 Minakawa, N., 2.8
 Minato, I., 2.3, 3.4, 7.1.3
 Miner, B. A., 4.3.4
 Mingos, D. M. P., 2.3
 Minkowski, M., 9.1
 Misemer, D. K., 4.2.3
 Mises, R. von, 6.1.1
 Misselwitz, R., 2.6.1
 Mitchell, E. M., 9.7
 Mitchell, J. P., 7.1.7
 Mitchell, P. W., 4.4.3
 Mitchell, R. S., 9.2.1
 Mitra, G. B., 5.2
 Mitsunaga, T., 4.2.3
 Mittelbach, P., 2.6.1
 Mittemeijer, E. J., 2.3
 Miyahara, J., 7.1.6, 7.1.8, 7.2
 Miyake, S., 9.2.1
 Miyamoto, M., 9.2.2
 Miyata, T., 3.4
 Miyoshi, A., 2.7
 Mizusaki, T., 4.3.7
 Mizutani, I., 5.3
 Mochiki, K., 7.1.6
 Modrzejewski, A., 5.3
 Moelo, Y., 9.2.2
 Moews, P. C., 3.4
 Moffat, K., 2.2, 3.4
 Mogami, K., 9.2.2
 Mohr, P. J., 4.2.2, 5.3
 Moliterni, A. G., 8.6
 Möllenstedt, G., 4.3.8
 Monaco, H. L., 3.1
 Montenegro, E. C., 4.2.4
 Moodie, A. F., 4.3.1, 4.3.6.1, 4.3.8
 Moody, P. C. E., 3.4
 Mook, H. A., 4.4.2, 8.7
 Moon, K. J., 2.7
 Mooney, P. E., 4.3.7, 4.3.8
 Mooney, T., 4.2.2
 Mooney, T. M., 4.2.2
 Moore, J. K., 7.1.7
 Moore, L. J., 5.3
 Moore, M., 2.7
 Moore, P. B., 2.6.1, 2.6.2
 Moran, M. J., 4.2.1
 Moras, D., 3.4
 Morawe, C., 2.9
 Morchan, V. D., 7.1.6
 Moreno, A., 3.1
 Moret, R., 3.4
 Moretto, R., 3.4
 Morgan, B. L., 7.1.6
 Morgan, C. B., 7.3
 Morgan, D. V., 7.1.6
 Morgenroth, W., 4.2.6
 Mori, H., 9.2.2
 Mori, N., 4.3.7, 4.3.8, 7.2
 Moriguchi, S., 7.2
 Morikawa, K., 4.3.7
 Moring-Claesson, O., 2.6.1
 Morosin, B., 3.4
 Morris, I. L., 9.1
 Morris, M. C., 2.3, 3.4

AUTHOR INDEX

- Morris, P. L., 3.5
 Morris, R. E., 2.3
 Morris, V. J., 2.6.1
 Morris, W. G., 5.3
 Morrison, G. R., 7.2
 Morse, P. M., 4.3.3
 Mort, K., 4.2.3
 Mortensen, K., 2.6.2
 Mortier, W. J., 2.3
 Mory, C., 4.3.4
 Moss, G., 8.7
 Mosteller, M., 8.2
 Motherwell, W. D. S., 9.5, 9.6
 Motohashi, H., 2.8
 Mott, N. F., 4.3.4
 Mott, N. I., 4.3.3
 Moudy, L. A., 5.3
 Moulai, J., 7.1.6
 Mountain, R. W., 7.1.6
 Mountfield, M. J., 3.5
 Mourou, X., 4.2.1
 Moy, J.-P., 7.1.6
 Moyer, N. E., 5.3
 Mücklich, F., 4.4.2
 Mughabghab, S. F., 4.4.4
 Mughier, J., 3.5
 Müller, A., 4.2.1
 Muller, J., 3.4
 Müller, J. E., 4.2.3, 4.3.4
 Müller, J. J., 2.6.1
 Müller, K., 2.6.1
 Müller, U., 9.2.2
 Müller, W., 7.1.2
 Müller-Heinzerling, T., 4.3.4
 Munshi, S. K., 3.4
 Muralt, P., 9.8
 Muramatsu, T., 4.3.3
 Murata, T., 4.2.3
 Murray, W., 8.3
 Murray-Rust, P., 9.6
 Murshudov, G. N., 3.4
 Mursic, Z., 4.4.2
 Murthy, M. R. N., 3.4
 Musil, F. J., 5.2, 5.3
 Mustre de Leon, J., 4.2.3
 Myklebust, R. L., 7.1.4
 Myles, D., 3.4

 Naday, I., 7.1.6, 7.3
 Naday, Y., 4.3.4
 Nagakura, S., 4.3.8
 Nagel, D. J., 4.2.1
 Naiki, T., 4.3.8
 Najmudin, S., 3.4
 Nakagawa, A., 7.1.8
 Nakajima, K., 5.3
 Nakajima, T., 5.2
 Nakamura, T., 5.3
 Nakamura, Y., 4.3.8
 Nakano, Y., 4.2.5, 6.3
 Nakayama, K., 2.7, 4.2.2
 Nanni, L. F., 5.3
 Nannichi, Y., 5.3
 Napier, J. G., 4.3.7
 Narayana, S. V. L., 3.4
 Nash, S., 8.1
 Nastasi, M., 2.9
 Nathans, R., 4.4.2, 4.4.3, 6.1.2
 Natoli, C. R., 4.2.3
 Naukkarinen, K., 2.7
 Nave, C., 2.6.1, 3.4

 Navrotsky, A., 3.4
 Nazarenko, V. A., 4.4.2
 Necker, G., 8.8
 Neder, R. B., 3.4
 Neilsen, C., 7.1.6
 Nelder, J. A., 9.7
 Nellist, P., 4.3.8
 Nelmes, R. J., 2.3, 2.5.1
 Nelms, A. T., 4.2.6
 Nelson, J. B., 5.2
 Nemiroff, M., 5.3
 Nesper, R., 9.1
 Nesterova, Ya. M., 9.2.2
 Neubüser, J., 1.4, 9.8
 Neuling, H. W., 2.5.1
 Nevot, L., 2.9
 Newbury, D. E., 7.1.4
 Newkirk, J. B., 2.7
 Newman, B. A., 5.3
 Newsam, J. M., 2.3
 Newville, M., 4.2.3
 Ng, E. W., 4.3.3
 Nichols, M. C., 2.3
 Nicholson, J. R. S., 2.7
 Nicholson, R. B., 3.5, 4.3.6.2, 4.3.8, 5.4.1
 Nicholson, W. L., 7.5, 8.2, 8.4, 8.5
 Nicol, J. M., 2.3
 Niculescu, V., 4.4.2
 Nielsen, C., 2.2, 3.4
 Nielsen, M., 2.3, 4.4.3, 7.1.3
 Nielson, C., 7.1.6
 Nielson, M., 4.4.3
 Nieman, H. F., 3.4
 Niemann, W., 4.2.3, 4.2.6
 Nierhaus, K. H., 2.6.2
 Niggli, P., 9.1
 Niimura, N., 2.5.1
 Niinikoski, T. O., 2.6.2
 Niklewski, T., 5.3
 Nikolin, B. I., 9.2.2
 Ninio, J., 2.6.1
 Nishina, Y., 7.4.3
 Nishiyama, Z., 9.2.1
 Nissenbaum, J., 7.1.4
 Nittono, O., 2.7
 Nixon, W. C., 4.2.1
 Nomura, K., 9.2.2
 Nomura, M., 4.2.3
 Nonaka, Y., 7.1.6
 Nonoyama, M., 5.4.2
 Nordfors, B., 4.2.3
 Norman, D., 4.2.3
 Normand, J.-M., 6.1.1
 North, A. C. T., 3.4, 6.3
 Northwood, D. O., 9.2.2
 Norton, T. J., 7.1.6
 Nothnagel, A., 2.6.1
 Novák, C., 9.2.2
 Nowacki, W., 9.1, 9.7
 Nowotny, V., 2.6.2
 Nugent, K. A., 4.2.5
 Numerov, B. V., 4.3.3
 Nunes, A. C., 4.4.2
 Nunez, V., 2.9, 4.4.2
 Nurmela, M., 2.3, 8.6
 Nyholm, R., 4.2.2

 Oba, K., 2.7, 7.1.6
 Obaidur, R. M., 5.3

 Obashi, M., 4.2.3
 Oberthür, R. C., 2.6.1, 2.6.2
 O'Connor, B., 8.6
 Ogawa, T., 4.2.6
 Ogilvie, R. E., 2.3, 5.3
 Oguso, C., 7.1.6
 Ohama, N., 5.3
 O'Hara, S., 2.7
 Ohkawa, T., 4.2.6
 Ohlendorf, D. H., 7.1.6
 Ohlidal, I., 2.9
 Ohshima, K.-I., 3.4
 Ohta, T., 4.2.3
 Ohtaka, K., 4.2.4
 Ohtsuki, Y. H., 4.2.4
 Oikawa, T., 4.3.7, 4.3.8, 7.2
 Okada, Y., 5.1, 5.3
 Okamoto, S., 2.9
 Okamura, Y., 7.1.6
 Okazaki, A., 3.4, 5.2, 5.3
 O'Keefe, M. A., 4.3.1, 4.3.2, 4.3.8, 6.1.1
 O'Keefe, M., 9.1
 Oki, K., 8.8
 O'Mara, D., 7.1.6
 Okorokov, A. I., 4.4.2
 Okude, S., 7.1.6
 Okuno, H., 7.3
 Oldfield, T. J., 3.1
 Olejnik, S., 5.3
 Olekhovich, A. I., 6.4
 Olekhovich, N. M., 6.4
 Oliver, J. H., 6.3
 Olkha, G. S., 7.5
 Olsen, A., 4.3.7, 4.3.8, 5.4.2
 Olsen, J. S., 2.5.1, 5.2, 5.3
 Olthoff-Münter, K., 2.7
 Omote, K., 2.3
 Onitsuka, H., 5.3
 Oosterkamp, P. W. J.,
 Oosterkamp, W. J., 4.2.1
 Op de Beeck, M., 4.3.8
 Opechowski, W., 1.4, 9.8
 Oppenheimer, I., 4.2.6
 Orchowski, A., 4.3.8
 Orlandi, P., 9.2.2
 Orpen, A. G., 9.5, 9.6
 Ortale, C., 7.1.6
 Ortiz, C., 2.3
 Oshima, K., 4.2.5
 Ostapovich, M. V., 5.3
 Ostrouchov, S., 8.1
 Ostrowski, G., 2.9
 Otten, E. W., 4.4.2
 Ottewanger, H., 7.1.6
 Otto, A., 4.3.4
 Otto, J. W., 2.5.1
 Øverbø, I., 4.2.3, 4.2.4
 Oviitt, T. W., 7.1.6
 Oyanagi, H., 4.2.3, 4.2.5
 Ozawa, S., 4.3.8
 Ozawa, T., 9.2.2

 Paakkari, T., 7.4.3
 Pabst, A., 9.2.2
 Pace, S., 5.3
 Paciorek, W. A., 7.5, 9.8
 Padawer, G. E., 5.3
 Padmaya, N., 9.7
 Pahl, R., 4.2.5
 Palache, Ch., 9.8

 Palenzona, A., 9.2.2
 Palmer, R. A., 3.1
 Palmer, S. B., 2.8
 Panchenko, J. M., 5.2
 Panchenko, Yu. M., 7.5
 Pandey, D., 9.2.1
 Pang, G., 5.3
 Pangborn, W. A., 3.1
 Pannhorst, V., 2.4.1
 Panson, A. Y., 4.3.4
 Pantos, E., 4.2.3
 Paoletti, A., 2.3, 2.4.2, 4.4.3, 8.6
 Paolini, F. R., 2.3
 Papatzacos, P., 4.2.3
 Papiz, M. Z., 2.3, 3.4
 Parak, F., 3.4
 Paretzkin, B., 3.4
 Parfait, J., 2.6.1
 Parfait, R., 2.6.2
 Parker, N. W., 4.3.4
 Parmon, V. S., 2.4.1
 Parratt, L. G., 2.3, 4.2.2, 4.2.3
 Parrish, W., 2.3, 2.5.1, 5.2, 5.3, 7.1.2, 7.1.3, 7.1.4, 7.5, 8.6
 Parsons, D. F., 4.1
 Parthé, E., 2.3
 Pasemann, M., 4.3.8
 Pasero, M., 9.2.2
 Pashley, D. W., 3.5, 4.3.6.2, 4.3.8, 5.4.1
 Passell, L., 4.4.2
 Patel, N. B., 5.3
 Patel, S., 3.1
 Paterson, M. S., 9.2.1
 Patt, B. E., 7.1.6
 Patterson, A. L., 9.2.1, 9.7
 Pattison, P., 7.4.3
 Pätzold, H., 4.3.7
 Paul, R. L., 4.4.2
 Pauling, L., 9.2.2, 9.3
 Paulus, M., 3.5
 Pavlishin, V. I., 9.2.2
 Pavlov, M. Yu., 2.6.2
 Pawley, G. S., 2.3, 5.2, 6.1.1, 6.3, 8.6, 8.7
 Peacock, M., 9.8
 Pearce-Percy, H. T., 4.3.4
 Pearl, L. H., 3.1
 Pearlman, S., 2.3
 Pearson, G. L., 5.3
 Pearson, W. B., 9.3
 Pease, D. M., 4.2.3
 Pedersen, J. S., 2.6.2, 2.9
 Peele, A. G., 4.2.5
 Peerdeman, A. F., 4.2.6
 Peerdeman, F., 5.2
 Peierls, R. E., 4.2.6
 Peiser, H. S., 2.3, 5.1
 Peisert, A., 7.1.6
 Peisl, J., 7.4.2
 Peixoto, E. M. A., 4.3.3
 Peltonen, H., 6.1.1
 Pendry, J. B., 4.2.3, 4.3.4, 4.3.6.2
 Penfold, J., 2.6.2, 2.9, 4.4.2
 Peng, L.-M., 4.3.1, 4.3.2, 8.8
 Pennartz, P. U., 3.4
 Penner-Hahn, J. E., 4.2.3, 7.1.5
 Penneycook, S. J., 3.5
 Pennock, G. M., 3.5
 Pennycook, S. J., 4.3.8

AUTHOR INDEX

- Perchiazzi, N., 9.2.2
 Perez, J. P., 4.3.4
 Perez-Mato, J. M., 9.8
 Perez-Mendez, V., 2.2
 Perfettii, P., 4.2.3
 Perlman, M. L., 4.2.3
 Pernot, P., 7.1.6
 Perrier de la Bathie, R., 2.8, 4.4.2
 Perrin, F., 6.1.1
 Perry, J. A., 9.1
 Persson, E., 4.2.6
 Persson, H., 4.2.2
 Perutz, M. F., 2.6.2
 Peshekhonov, V. D., 7.1.6
 Pesonen, A., 2.3
 Pessen, H., 2.6.1
 Peterson, R. C., 3.4
 Petiau, J., 4.2.3, 4.3.4
 Petit, M., 7.1.6
 Petri, E., 4.3.4
 Petricek, V., 9.2.2, 9.8
 Petroff, J. F., 2.7, 2.8
 Petrova, S. N., 9.2.2
 Petsko, G. A., 3.4
 Pettersen, R. C., 9.5, 9.6
 Petzow, G., 4.4.2
 Pfeiffer, H. G., 4.2.4
 Pfister, J. C., 5.3
 Pflüger, J., 4.3.4
 Pflugrath, J., 3.4
 Pflugrath, J. W., 7.1.6
 Phan, T., 9.8
 Phelps, A. W., 9.2.2
 Philipp, H. R., 4.3.4
 Phillips, J. C., 4.2.6
 Phillips, D. C., 2.2, 3.4, 6.3
 Phillips, F. C., 3.1
 Phillips, G. N. Jr., 3.4
 Phillips, W. C., 2.3, 4.2.1, 7.1.6
 Phizackerley, R. P., 7.1.6
 Photen, M. L., 7.1.7
 Piaget, C., 7.1.6
 Pick, M. A., 5.3
 Pickart, S. J., 4.4.2
 Pickford, M. G., 3.4
 Picot, D., 3.1
 Picraux, S. T., 4.1
 Piermarini, G. J., 5.3
 Pierron, E. D., 5.3
 Piestrup, M. A., 4.2.1
 Pietraszko, A., 5.3
 Pihl, C. F., 5.3
 Pike, E. R., 2.3, 5.2
 Piltz, R. O., 2.3
 Pilz, I., 2.6.1
 Pimentel, C. A., 5.3
 Pincus, C. I., 4.2.1
 Pinot, M., 2.6.2
 Pinsker, Z. G., 2.4.1, 2.7, 4.3.5, 5.3
 Pirene, M. H., 4.2.4
 Pirouz, P., 4.3.8
 Plançon, A., 4.3.5
 Platzman, P. M., 7.4.3
 Plechaty, E. F., 4.2.4
 Plies, E., 4.3.4
 Plotnikov, V. P., 4.3.5
 Plotz, W., 2.9
 Plummer, E. W., 4.1
 Podlasin, S., 3.4, 5.3
 Podolsky, R. J., 7.1.6
 Pofahl, E., 5.3
 Polack, F., 7.1.6
 Polcarová, M., 5.3
 Polidori, G., 8.6
 Polizzi, S., 2.3
 Pollehn, H. K., 7.1.6
 Polyak, M. I., 5.3
 Pommerrenig, D. H., 7.1.6
 Pongratz, P., 7.4.2
 Ponomarev, I. Yu., 4.4.2
 Poole, M. W., 4.2.1
 Popa, N. C., 7.4.2, 8.6
 Popov, A. N., 7.1.6
 Popović, S., 5.2, 5.3
 Porat, Z., 3.5
 Porod, G., 2.6.1, 2.6.2
 Porsev, G. D., 4.4.2
 Porteus, I. O., 4.2.3
 Posselt, D., 2.6.2
 Post, B., 5.3
 Post, J. E., 2.3
 Potts, H. R., 5.3
 Poulos, T. L., 7.1.6
 Pound, A., 3.2
 Poux, J., 7.1.3, 7.1.6
 Powell, B. M., 3.4
 Powell, C. J., 4.2.2, 4.3.4
 Powell, H. R., 2.3
 Powers, L. S., 4.2.3
 Prager, P. R., 9.2.1
 Prandl, W., 3.4
 Prasad, B., 9.2.1
 Prasad, L., 9.2.1
 Pratapa, S., 8.6
 Pratt, R. H., 4.2.4, 4.2.6, 7.4.3
 Press, W., 6.1.1
 Preston, A. R., 8.8
 Preston, G. D., 9.8
 Preston, K. D., 2.3
 Prewitt, C. T., 2.3, 3.4
 Price, P. F., 4.2.6
 Price, W. J., 7.1.6
 Prince, E., 2.3, 4.2.2, 5.1, 5.3, 7.5, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6
 Prince, F. C. de, 5.3
 Pring, A., 9.2.2
 Prins, J. A., 2.6.1
 Probst, R., 4.2.2, 5.3
 Prout, C. K., 2.3
 Proviz, G. I., 7.1.6
 Provost, K., 3.1
 Przybylska, M., 3.1, 3.4
 Ptitsyn, O. B., 2.6.1
 Pulay, P., 4.3.3
 Pürschel, H. V., 2.6.1
 Pusey, M., 3.1
 Puxley, D. C., 3.4
 Pynn, R., 2.9, 4.4.2, 4.4.3
 Pyrros, N. P., 2.3
 Quayle, J. A., 2.7
 Queisser, H.-J., 2.7
 Rabe, P., 2.7, 4.2.3, 4.2.6
 Rabinovich, D., 2.2, 7.5
 Rabukhin, V. B., 3.2
 Rächinger, W. A., 2.3
 Rackham, G. M., 4.3.6.2, 5.4.2
 Radeka, V., 7.3
 Rademacher, H.-J., 4.2.2, 5.3
 Radi, G., 8.8
 Radoslovich, E. W., 9.2.2
 Rae, A. D., 8.3
 Rae, W. N., 3.2
 Raether, H., 4.3.4
 Rafferty, J., 9.6
 Rai, R. S., 9.2.1
 Raia, C. A., 3.1
 Raiko, V. I., 4.2.1
 Raj, K., 4.4.2
 Ralph, R. L., 8.3
 Ramachandran, G. N., 2.7
 Ramakrishnan, V., 2.6.2
 Ramakumar, S., 9.7
 Ramaseshan, S., 4.2.6, 6.1.3
 Ramesh, R., 4.3.7
 Ramesh, T. G., 6.1.3
 Ramsay, D. A., 9.5, 9.6
 Ramsdell, L. S., 9.2.1
 Randall, K. H., 9.1
 Ranganath, G. S., 6.1.3
 Rao, C. N., 4.3.4
 Rao, Ch. P., 3.4
 Rao, S., 9.1
 Raoux, D., 7.1.6
 Rask, J. H., 4.3.4
 Rasmussen, B. F., 3.4
 Rasmussen, S. E., 3.4
 Rathie, P. N., 7.5
 Rau, W., 4.3.8
 Rau, W. D., 4.3.8, 7.2
 Rauch, H., 2.7, 4.4.2, 4.4.4
 Ravel, B., 4.2.3
 Ravn, H. L., 4.2.2
 Rayment, I., 3.4
 Raynal, J., 4.3.3
 Read, M. H., 2.3
 Read, W. T., 6.4
 Reck, G., 9.2.2
 Redinbo, M. R., 3.1
 Reed, M., 4.2.1
 Reed, R. E., 4.4.2
 Reed, S. J. B., 2.3, 4.2.1
 Reeke, G. N. J., 5.3
 Rees, A. L. G., 2.4.1
 Rees, B., 8.7
 Rees, D. C., 3.1
 Rehr, J. J., 4.2.3
 Reichard, T. E., 5.3
 Reider, M., 3.4
 Reifsnider, K., 2.7
 Reilly, J., 3.2
 Reim, G., 4.2.2, 5.3
 Reimer, L., 4.3.4, 7.2
 Reinecke, T., 9.2.2
 Reinhardt, A., 9.1
 Rem, P. C., 4.4.2
 Remaut, G., 3.5
 Remenyuk, P. I., 5.3
 Remington, S. J., 3.1
 Ren, G., 4.3.2
 Renault, A., 4.3.8
 Renda, G., 7.1.6
 Rendle, D. F., 2.3
 Rennekamp, R., 4.3.4
 Renninger, M., 2.3, 2.7, 5.3
 Resouche, E., 4.4.2
 Reverchon, F., 3.5
 Reynolds, G. T., 7.1.6
 Reynolds, R. A., 3.1
 Reynolds, R. C., 2.3
 Rez, D., 4.3.1, 4.3.2
 Rez, P., 4.3.1, 4.3.2, 4.3.4
 Rhan, H., 5.3
 Ribberfors, R., 7.4.3
 Ricci, F. P., 2.3, 2.4.2, 4.4.3, 8.6
 Rice, S. B., 4.3.8
 Rice-Evans, P., 7.1.6
 Richard, J. C., 7.1.6
 Richards, F. M., 3.2, 3.4
 Richardson, J. W., 8.6
 Richardson, M. C., 4.2.1
 Richardson, M. C. M., 4.2.5
 Richter, D., 4.4.2
 Ricker, G. R., 7.1.6
 Ridou, C., 5.3
 Rieck, C. D., 4.2.2
 Riekel, C., 3.1
 Ries-Kautt, M., 3.1
 Rietveld, H. M., 2.3, 2.4.2, 5.2, 8.2, 8.3, 8.6
 Rieubland, J. M., 2.6.2
 Rieubland, M., 2.6.2
 Riggs, P. J., 4.2.3
 Riglet, P., 2.7
 Rigoult, J., 6.3
 Rijlart, A., 2.6.2
 Rijllart, A., 2.6.2
 Riley, D. P., 5.2
 Rindby, A., 4.2.5
 Ringe, D., 3.4
 Ringe-Ponzi, D., 3.4
 Rink, W. J., 3.4
 Rinn, H. W., 2.3
 Ripp, R., 3.4
 Riquet, J. P., 3.4
 Risler, J. L., 3.4
 Riste, T., 4.4.2
 Ritchie, R. H., 4.3.4
 Ritland, H. N., 2.6.1
 Ritsko, J. J., 4.3.4
 Ritter, R., 4.4.2
 Rizkallah, P. J., 3.1
 Robert, M. C., 3.1
 Roberts, K. J., 2.7, 3.4
 Roberts, L. D., 4.4.2
 Roberts, P.-H., 6.1.1
 Robertson, B. E., 5.3
 Robin, J., 4.2.1
 Robinson, R. A., 4.4.3
 Roche, C. T., 7.3
 Rode, A. V., 4.2.5
 Rodeau, J.-L., 3.1
 Rodenburg, J., 4.3.8
 Rodgers, J. R., 9.3, 9.5, 9.6, 9.7
 Rodricks, B., 7.1.6
 Rodrigues, A. R. D., 2.3, 2.7, 4.2.5
 Rodriguez, S., 5.3
 Roe, A. L., 7.1.5
 Roe, S. M., 3.4
 Roehrig, H., 7.1.6
 Roetti, C., 4.4.5, 6.1.1, 6.1.2
 Rogers, D. W., 3.4
 Rogers, J. E., 8.1
 Rogerson, I. F., 5.2
 Rohe, D., 4.4.2
 Rohrer, H., 4.3.8
 Rohrllich, F., 7.4.3
 Rollett, J. S., 5.3
 Rømming, C., 4.3.7, 8.8

AUTHOR INDEX

- Rooksby, H. P., 2.3, 5.1
 Rooms, G., 4.4.2
 Roos, B., 6.1.1
 Roppert, J., 2.6.1
 Rose, A., 7.1.6, 7.1.7
 Rose, H., 4.3.4
 Rosier, D. J. de, 4.1
 Rosner, B., 5.3
 Ross, A. W., 4.3.3
 Ross, M., 9.2.2
 Ross, P. A., 2.3
 Rossbach, M., 4.4.2
 Rossi, F. A., 3.4
 Rossi, J., 7.1.7
 Rossi, J. P., 7.1.7
 Rossi, M., 3.1
 Rossmanith, E., 5.3
 Rossmann, M. G., 2.2, 3.4, 5.3
 Rossouw, C. J., 4.3.4
 Rotella, F. J., 2.5.2, 5.5
 Rouault, M., 4.3.3
 Roubeau, A., 2.6.2
 Roudaut, E., 2.4.2, 7.3
 Rourke, C. P., 6.3
 Rouse, K. D., 6.3, 7.4.2
 Rousseau, M., 5.3
 Rousseaux, F., 2.2, 4.3.5
 Roux, M., 4.3.3
 Rowe, J. M., 4.4.2, 4.4.3
 Rowlands, P. C., 5.3
 Roy, S. C., 4.2.4, 4.2.6
 Rozgonyi, G. A., 7.1.7
 Rozhanski, V. N., 4.3.8
 Rozhansky, V. H., 5.3
 Rozhansky, V. N., 5.3
 Rubin, H., 2.3
 Rubinstein, I., 3.5
 Ruble, J. R., 6.3
 Ruckpaul, K., 2.6.1
 Rudakov, L. I., 4.2.1
 Rudman, R., 3.4
 Rule, D. W., 4.2.1
 Rullhausen, P., 4.2.4, 4.2.6
 Rumpf, A., 2.7
 Runov, V. V., 4.4.2
 Ruoff, A. L., 2.5.1
 Rush, J. J., 8.3
 Russ, J. C., 7.1.4
 Russell, D. R., 9.6
 Russell, T. P., 2.9
 Rustichelli, F., 2.8, 4.4.2
 Rüter, H. D., 5.3
 Rzotkiewicz, S., 8.7
- Sabine, T. M., 6.4
 Sabino, E., 2.3, 5.2
 Sadanaga, R., 9.2.2
 Sadaoui, N., 3.1
 Sadler, D. M., 2.6.1
 Sagar, R. P., 4.3.3
 Sagerman, G., 3.4
 Sah, R. E., 4.3.4
 Saito, M., 4.2.3
 Saitoh, K., 7.2
 Sakabe, K., 6.3
 Sakabe, N., 2.2, 4.2.5, 6.3,
 7.1.6, 7.1.8
 Sakai, H., 2.7, 7.1.6, 7.1.7
 Sakamaki, T., 3.4
 Sakashita, H., 5.3, 9.2.2
 Sakata, M., 7.4.2, 8.6
- Sakurai, H., 4.2.1
 Sakurai, K., 4.2.1
 Salcido, M. M., 7.1.6
 Saldin, D. K., 4.3.4, 8.8
 Salemne, F. R., 7.1.6
 Saloman, E. B., 4.2.3, 4.2.4
 Salomonson, S., 4.2.2
 Salva-Ghilarducci, A., 2.6.2
 Samotoin, N. D., 4.3.5
 Samsonov, G. V., 9.3
 Sander, B., 5.3
 Sandström, A. E., 5.2
 Sanford, P. W., 7.1.6
 Sankey, O. F., 4.3.4
 Sano, H., 4.2.4
 Santiard, J. C., 2.2, 7.1.6
 Santilli, V. J., 7.1.6
 Santoro, A., 6.3
 Sapirstein, J., 4.2.2
 Sareen, R. A., 7.1.6
 Sarikaya, M., 4.3.7
 Sarma, R., 3.4
 Sasaki, A., 4.2.3
 Sasaki, H., 4.3.3
 Sasvári, J., 5.3
 Sato, F., 2.7, 7.1.6, 7.1.7
 Sato, M., 3.4
 Sato, S., 4.2.6
 Sato-Sorensen, Y., 3.4
 Satow, Y., 7.1.6, 7.1.8
 Sauder, W. C., 4.2.2
 Sauer, H., 4.3.4
 Sauli, F., 2.2
 Saunders, M., 4.3.7, 8.8
 Sauvage, M., 2.7, 2.8
 Savage, H. F. J., 3.4
 Savinov, G. A., 7.1.6
 Savitzky, A., 2.3
 Sawada, M., 4.2.1, 4.2.3
 Sawada, T., 4.3.3
 Sawatsky, G. A., 4.3.4
 Saxton, W., 4.3.8
 Saxton, W. O., 4.3.8
 Sayers, D. E., 4.2.3, 4.3.4
 Szaki, T., 4.3.4
 Sbitnev, V. I., 4.4.2
 Scarborough, G. A., 3.1
 Scardi, P., 5.2, 8.6
 Scaringe, R. P., 9.7
 Schaefer, W., 7.3
 Schaefer, O., 4.4.2
 Schäfer, L., 4.3.3
 Schalt, W., 4.4.2
 Schärpf, O., 2.6.2, 4.4.2
 Schattschneider, P., 4.3.4
 Schauer, P., 7.2
 Schaupp, D., 4.2.4, 4.2.6, 7.4.3
 Scheerer, L. D., 4.4.2
 Schebetov, A. F., 4.4.2
 Scheckenhofer, H., 2.9
 Schedler, E., 4.4.2
 Schedrin, B. M., 2.6.1
 Scheer, J. W., 7.1.6
 Scheerer, B., 4.3.4
 Scheetz, B. E., 2.3
 Schefer, J., 4.4.2
 Scheinfein, M., 4.3.4
 Schellenberger, U., 5.3
 Schelten, J., 2.6.1, 2.6.2, 4.4.2,
 7.3
 Schenk, M., 5.3
- Scheraga, H. A., 9.7
 Scheringer, C., 6.1.1
 Scherm, R., 2.8, 4.4.2
 Scherm, R. H., 4.4.2
 Scherrer, P., 2.3
 Scherzer, O., 4.3.8
 Schetelich, Ch., 5.3
 Schick, B., 3.1
 Schieber, M., 7.1.4
 Schikora, D., 5.3
 Schildkamp, W., 2.2
 Schiller, C., 3.4
 Schindler, D. G., 2.6.2
 Schink, H.-J., 2.6.2
 Schirber, J. E., 3.4
 Schirmer, A., 4.4.2
 Schiske, P., 4.3.8
 Schlenker, M., 2.8, 7.3
 Schlenoff, J. B., 3.4
 Schlesier, B., 3.1
 Schmalte, H. W., 9.2.2
 Schmatz, W., 4.4.2
 Schmetzer, K., 2.3
 Schmider, H., 4.3.3
 Schmidt, H., 5.3
 Schmidt, K., 2.6.2
 Schmidt, L., 4.2.1
 Schmidt, V. V., 4.2.3
 Schnabel, R. B., 8.1
 Schnatterly, S. E., 4.3.4
 Schneider, D. K., 2.6.2
 Schneider, G., 9.2.2
 Schneider, J., 3.4, 5.3
 Schneider, J. R., 2.5.2, 4.1, 7.4.3
 Schnering, H. G. von, 9.1
 Schnopper, H. W., 4.2.3
 Schoenborn, B. P., 2.6.2, 4.4.2,
 6.1.3
 Schomacher, V., 4.3.3
 Schomaker, V., 4.3.3, 8.3
 Schoonover, R. M., 5.3
 Schrauber, H., 2.6.1, 9.2.2
 Schreiner, W., 2.3, 5.2
 Schreiner, W. N., 2.3, 5.2
 Schrey, F., 5.3
 Schreyer, A., 2.9
 Schröder, B., 4.3.4
 Schröder, W., 2.2, 2.7
 Schroeder, L. W., 6.3
 Schubert, P., 3.4
 Schultz, A. J., 2.5.2, 7.3
 Schultz, H., 2.3
 Schulz, H., 3.4, 5.3, 6.1.1, 7.4.2,
 9.2.2
 Schulz, L. G., 2.7
 Schulze, G. E. R., 3.2, 5.3
 Schulze, H., 2.6.2
 Schumacher, M., 4.2.4, 4.2.6,
 7.4.3
 Schurz, J., 2.6.1
 Schuster, M., 4.2.6
 Schutt, C. E., 2.2
 Schwager, P., 3.4, 6.3
 Schwahn, D., 2.6.2
 Schwartz, L. S., 2.3
 Schwartzberger, D. R., 5.3
 Schwarz, H. E., 7.1.6
 Schwarz, W., 9.2.2
 Schwarzenbach, D., 4.2.2, 5.3,
 8.1, 9.3
 Schweig, A., 4.3.3
- Schweizer, J., 4.4.2, 8.7
 Schwendemann, R. H., 9.5, 9.6
 Schweppe, J., 4.2.2
 Schweppe, J. E., 4.2.2
 Schwinger, J., 4.2.1
 Schwitz, W., 4.2.2
 Schwuttke, G. H., 2.7, 5.3
 Scofield, J., 4.2.6
 Scofield, J. H., 4.2.3, 4.2.4
 Scott, C. P., 7.2
 Scott, H. G., 8.6
 Scott, V. D., 4.2.1
 Scuderi, J., 3.4
 Sears, V. F., 2.9, 4.2.3, 4.4.2,
 4.4.4
 Seary, A. J., 4.2.3
 Sebastian, M. T., 9.2.1
 Sébilleau, F., 2.3
 Secrest, D., 6.3
 Sedlacek, P., 9.2.2
 Seebold, R. E., 2.3
 Seeds, W. E., 2.6.1
 Seegar, P. A., 4.4.4
 Seeger, A., 4.4.2
 Seeger, P. A., 7.1.6
 Seemann, H., 2.3
 Segall, R. L., 9.2.2
 Segmüller, A., 2.3, 5.3
 Seip, H. M., 4.3.3
 Seip, R., 4.3.3
 Seka, W., 4.2.1
 Seki, R., 4.2.2
 Sekiguchi, A., 7.1.6
 Sekiguchi, A. A., 7.1.6
 Self, P. G., 4.3.8
 Selsmark, B., 2.5.1
 Semiletov, S. A., 2.4.1
 Senemaud, C., 4.2.1, 4.2.2
 Senzaki, K., 4.2.3
 Serdyuk, I. N., 2.6.2
 Serebrov, A. P., 4.4.2
 Serughetti, J., 3.5
 Servidori, M., 5.3
 Sette, F., 4.3.4
 Sevely, J., 4.3.4
 Sevillano, E., 4.2.3
 Seyfried, P., 4.2.2, 5.3
 Seymann, E., 4.4.4
 Shaham, H., 3.4
 Sham, L. S., 4.2.6
 Shankland, K., 4.3.7, 8.6
 Shannon, C. E., 2.6.1
 Shapiro, F. L., 4.4.2
 Shapiro, S. M., 4.4.2
 Sharov, V. A., 4.4.2
 Shaw Stewart, P. D., 3.1
 Shaw, A., 3.1
 Shechtman, D., 9.8
 Shekhtman, V. Sh., 5.3
 Sheldon, J., 3.4
 Sheldrick, G. M., 5.3
 Shelud'ko, S. A., 5.3
 Shenoy, G. K., 4.1
 Shephard, G. C., 9.1
 Sherman, I. S., 4.3.4, 7.1.6
 Sherwood, J. N., 2.7, 2.8
 Sheu, E. Y., 2.6.1, 2.6.2
 Shibata, S., 4.3.3
 Shidara, K., 2.7, 7.1.6, 7.1.7
 Shields, W. R., 5.3
 Shiles, E., 4.3.4

AUTHOR INDEX

- Shimakura, H., 4.2.6
 Shimambukuro, R. L., 4.2.4, 4.2.6
 Shindo, D., 4.3.8
 Shinoda, G., 5.3
 Shiraiwa, T., 4.2.3
 Shiraiwa, Y., 4.2.1
 Shirane, G., 4.4.2, 4.4.3, 6.1.2
 Shirley, R., 8.6
 Shishiguchi, S., 2.3, 7.1.3
 Shmueli, U., 7.5
 Shmytko, I. M., 4.2.6, 5.3
 Shoemaker, D. P., 7.5, 8.4
 Shoji, T., 2.3
 Shore, J. E., 8.2
 Shortley, G. H., 8.7
 Shrier, A., 5.3
 Shubnikov, A. V., 9.1
 Shulakov, E. V., 4.2.6, 5.3
 Shull, C. G., 2.8, 6.1.2, 6.1.3
 Shulman, R. G., 4.2.3
 Shulman, S., 2.6.1
 Shuman, H., 4.3.4
 Shuvalov, B. N., 7.1.6
 Shvarts, D., 4.2.1
 Shvyd'ko, Yu. V., 5.3
 Sica, F., 3.1
 Siddons, D. P., 2.3, 2.7, 4.2.6
 Siddons, P., 4.2.6
 Sidorenko, O. V., 4.3.5, 9.2.2
 Sidorov, V. A., 7.1.6
 Sieber, J., 8.6
 Siegbahn, M., 4.2.1
 Siegbahn, P., 6.1.1
 Siegel, R. W., 4.1
 Siegert, H., 4.2.2, 5.3
 Siegmund, O. H. W., 7.1.6
 Siegmund, W., 4.2.5
 Siemensmeyer, K., 4.4.2
 Sievers, R., 9.4, 9.5, 9.6
 Silcox, J., 4.3.4
 Sillers, I.-Y., 2.6.2
 Sillou, D., 2.8
 Silzer, R. M., 4.2.1
 Simmons, R. O., 5.3
 Simms, R. A., 7.1.6
 Simon, J. P., 2.6.2
 Simons, A. L., 4.2.3
 Simpson, J. A., 4.3.4
 Simpson, K., 2.6.2
 Simpson, W. T., 6.1.1
 Sinclair, H. B., 5.2
 Sinfelt, J. H., 4.2.3
 Singh, G., 9.2.1
 Singh, K., 5.3
 Singh, S. R., 9.2.1
 Sinha, S. K., 2.9
 Sinogowitz, U., 9.1
 Sirianni, A. F., 2.3
 Sironi, A., 8.6
 Sirota, E. B., 2.9
 Sirota, M. I., 2.4.1
 Sivia, D. S., 8.6
 Skalicky, P., 7.4.2
 Skellam, J. G., 7.5
 Skilling, J., 8.2
 Skopik, D. M., 4.2.1
 Skowronek, M., 7.1.6
 Skupov, V. D., 5.3
 Skuratowski, I. Ya., 4.2.1
 Slack, G. A., 9.1
 Slade, J. J., 5.3
 Slade, J. J. Jr., 5.3
 Slater, J. C., 7.4.3
 Sleight, A. W., 2.3
 Sleight, J., 4.2.1
 Slingsby, S., 3.4
 Šljukić, M., 5.3
 Sloane, N. J. A., 9.1
 Sluis, P. van der, 3.1
 Smaalen, S. van, 9.2.2, 9.8
 Smakula, A., 5.3
 Smend, F., 4.2.4, 4.2.6, 7.4.3
 Smirnov, V. V., 4.3.8
 Smirnova, N. L., 9.1
 Smith, A. J., 9.7
 Smith, D., 4.3.3
 Smith, D. G. W., 2.3
 Smith, D. J., 3.5, 4.3.7, 4.3.8
 Smith, D. K., 2.3, 9.2.2
 Smith, D. T., 3.4
 Smith, D. Y., 4.2.6, 4.3.4
 Smith, G., 5.3, 7.1.6
 Smith, G. F. H., 9.8
 Smith, G. S., 2.3, 2.9
 Smith, H., 8.1, 8.4
 Smith, J. M., 9.7
 Smith, J. V., 9.2.2
 Smith, S. T., 2.3
 Smith, S. Y., 4.3.4
 Smith, T. B., 4.4.2
 Smith, V. H., 4.3.3
 Smith, V. H. Jr., 4.3.3, 6.1.1
 Smits, D. W., 5.2
 Snavely, M. K., 4.1
 Snell, E., 2.2
 Snigirev, A., 4.2.5
 Snigireva, I., 4.2.5
 Snyder, D., 4.2.1
 Snyder, R. L., 2.3
 Soares, D. A. W., 5.3
 Soboleva, S. V., 4.3.5, 9.2.2
 Söchtig, J., 4.4.2
 Soejima, Y., 3.4, 5.3
 Sofer, A., 8.1
 Soff, G., 4.2.2
 Soller, W., 2.3, 5.2
 Somiya, S., 2.3
 Somlyo, A. P., 4.3.4
 Sommers, H. S., 4.4.2
 Sonada, M., 7.1.6
 Sonneveld, E. J., 2.3, 5.2
 Sonoda, M., 7.1.8
 Sorenson, D., 8.1
 Sorenson, L. B., 4.2.3
 Sorenson, L. O., 4.2.6
 Soriano, T. M. B., 3.1
 Sorokin, N. D., 9.2.2
 Soures, J. M., 4.2.1
 Sowa, H., 9.1
 Spackman, M. A., 8.7
 Spangfort, M. D., 3.1
 Spargo, A. E. C., 4.3.7, 4.3.8
 Sparks, C. J., 5.2, 7.4.3
 Sparks, R. A., 2.3, 3.4
 Sparrow, T. G., 4.3.4
 Spear, W. E., 4.2.1
 Spehr, R., 4.3.4
 Speier, W., 4.3.4
 Spence, A. J., 4.3.8
 Spence, J. C. H., 4.3.4, 4.3.7, 4.3.8, 8.8
 Spencer, R. C., 5.2
 Spiegelman, C. H., 8.4, 8.5
 Spielberg, N., 2.3, 5.2, 7.5
 Spooner, F. J., 5.3
 Springer, T., 2.6.2, 4.4.2
 Sprong, G. J. M., 5.2
 Squire, G. D., 3.4
 Srinivasan, K., 2.5.2
 Stępień, J. A., 5.3
 Stępień-Damm, J., 5.3
 Stępień-Damm, J. A., 5.3
 Stalick, J. K., 2.3, 2.4.1, 5.1, 5.2
 Stalke, D., 3.4
 Stanglmeier, F., 4.2.6
 Stanley, H. B., 2.9
 Stanton, M., 7.1.6
 Stasiecki, P., 2.6.1
 Statile, J. L., 7.1.7
 Staub, U., 4.4.2
 Stearns, D. G., 4.2.6
 Stedman, R., 4.4.3
 Steeds, J. W., 4.3.6.2, 4.3.7, 5.4.2, 8.8
 Steeple, H., 2.3
 Stegun, I. A., 6.1.1, 6.3, 7.5
 Steichele, E., 2.5.2, 4.4.2
 Steigemann, W., 3.4
 Steinberger, I. T., 9.2.1
 Steinberger, J., 4.4.2
 Steiner, M., 4.4.2
 Steiner, W., 7.4.2
 Steinhäuser, K. A., 2.9
 Steinmeyer, P. A., 2.3
 Steinsvoll, O., 4.4.2, 4.4.3
 Stemple, N. R., 4.2.6
 Stephens, M. A., 6.1.1
 Stephens, P. W., 4.2.5, 8.6
 Stephenson, S. T., 4.2.1
 Stern, E. A., 4.2.1, 4.2.3, 4.3.4
 Stern, R. A., 7.1.6
 Steryl, A., 2.9
 Stetsko, Yu. P., 5.3
 Steurer, W., 9.8
 Stevels, A. L. N., 2.7
 Stevens, E. D., 7.4.2, 8.7
 Stevenson, A. W., 7.4.2
 Stevenson, M. L., 4.2.3
 Stewart, G. W., 8.1
 Stewart, R. F., 4.3.3, 6.1.1, 8.7
 Stibius-Jensen, M., 4.2.3, 4.2.6
 Stiefel, E., 8.3
 Stipcich, S., 4.2.3
 Stirling, W. G., 4.4.2
 Stobbs, W. M., 4.3.8
 Stock, A. M., 3.4
 Stock, S. R., 4.2.3
 Stohr, J., 4.2.3, 4.3.4
 Stølevik, V., 4.3.3
 Storm, A. R., 4.2.3
 Storm, E., 4.2.4, 4.2.6
 Stott, A. M. B.,
 Stout, C. D., 3.1
 Stout, G. H., 2.2, 3.1, 3.4, 5.3
 Stout, J. H., 9.2.2
 Strack, R., 4.2.5
 Stragier, H., 4.2.3
 Stratonovich, R. L., 6.1.1
 Straumanis, M., 5.3
 Straumanis, M. E., 2.3, 5.3
 Strauss, M. G., 4.3.4, 7.1.6, 7.3
 Strauss, S., 7.4.3
 Strinskii, A. N., 4.2.1
 Strobel, P., 3.1
 Stroud, A. H., 6.3
 Stuart, A., 3.1, 3.3, 6.1.1
 Stuart, D., 6.3
 Stuart, D. I., 3.4
 Stubbings, S. J., 3.4
 Stuckey Kauffman, D., 5.3
 Stuesser, N., 4.4.2
 Stuhmann, H., 4.2.1
 Stuhmann, H. B., 2.6.1, 2.6.2
 Stümpel, J., 4.2.2
 Stümpel, J. W., 7.1.6
 Stura, E. A., 3.1
 Sturhahn, W., 5.3
 Sturkey, L., 2.4.1
 Sturm, K., 4.3.4
 Sturm, M., 4.2.6
 Su, L. S., 4.3.3
 Su, Z., 8.7
 Suck, D., 3.4
 Sudol, J., 7.3
 Suehiro, S., 7.1.6
 Sueno, S., 3.4
 Suh, I.-H., 3.4
 Suh, J.-M., 3.4
 Sukharev, Y., 4.3.7
 Suller, V. P., 4.2.1
 Sullivan, J. D., 3.2
 Sumner, I., 7.1.6
 Suortti, P., 2.3, 4.2.1, 4.2.4, 4.2.6, 7.4.2, 7.4.4, 8.6
 Surin, B. P., 3.1
 Surkau, R., 4.4.2
 Suski, T., 3.4, 5.3
 Sussieck-Fornefeld, C., 2.3
 Sussini, J., 4.2.5
 Sutter, J., 5.3
 Sutton, L. E., 9.5, 9.6
 Suzuki, M., 9.2.2
 Suzuki, S., 2.7
 Suzuki, T., 4.3.8
 Suzuki, Y., 7.1.6
 Svensson, C., 5.3
 Svensson, L. A., 3.1
 Svergun, D. I., 2.6.1
 Swann, P. R., 3.5, 4.3.4
 Swanson, D. K., 3.4
 Swanson, H. E., 5.2, 5.3
 Swanton, D. J., 8.7
 Swapp, S. M., 3.4
 Sweet, R. M., 3.1, 7.1.6
 Swoboda, M., 4.3.7
 Swyt, C. R., 4.3.4
 Sygusch, J., 8.3
 Syromyatnikov, F. V., 3.2
 Szabó, P., 7.5
 Szarras, S., 2.5.1
 Szmid, Z., 2.5.1, 5.3
 Szymański, J. T., 9.2.2
 Tabernor, M. A., 4.3.1, 4.3.2, 4.3.7, 6.1.1, 8.8
 Taft, E. A., 4.3.4
 Taftø, J., 4.3.4, 4.3.7, 8.8
 Tairov, Yu. M., 9.2.2
 Takahashi, H., 4.3.7
 Takahashi, K., 7.1.6, 7.1.8
 Takahata, T., 9.2.2
 Takama, T., 4.2.6
 Takano, M., 7.1.6, 7.1.8

AUTHOR INDEX

- Takano, Y., 5.3
 Takayanagi, K., 4.3.8
 Takeda, H., 9.2.2
 Takeda, T., 4.2.3, 4.4.2
 Takéuchi, Y., 9.2.2
 Tanaka, H., 7.1.8
 Tanaka, M., 4.2.2, 4.3.7, 7.1.6, 8.8
 Tanaka, N., 3.4
 Tanaka, T. J., 4.2.4, 4.2.6
 Tanemura, M., 9.1
 Tanimoto, M., 7.1.6
 Tanioka, K., 7.1.6
 Tanisaki, S., 9.8
 Tanner, B. K., 2.7, 4.1, 5.3
 Tanoue, H., 4.2.3
 Tao, K., 2.3
 Taran, Yu. V., 4.4.2
 Tardieu, A., 2.6.2
 Tarling, S. E., 3.4
 Tasset, F., 4.4.2
 Tate, M. W., 2.7
 Taub, H., 7.3
 Taupin, D., 2.3
 Tavard, C., 4.3.3
 Taxer, K., 9.2.2
 Taylor, A., 2.3, 4.2.1, 5.2, 9.2.1
 Taylor, B. N., 4.2.1, 4.2.2, 4.2.3, 5.3
 Taylor, H. F. W., 9.2.2
 Taylor, J., 2.3, 5.2
 Taylor, J. C., 8.6
 Taylor, P. R., 6.1.1
 Taylor, R., 9.5, 9.6
 Tazzari, S., 4.2.1, 4.2.6
 Tchoubar, C., 4.3.5
 Tchoubar, D., 4.3.5
 Teatum, E. T., 9.3
 Teeter, M. M., 3.4
 Teller, E., 9.2.1
 Teller, R. G., 2.5.2
 Tello, M. J., 9.8
 Templer, R. H., 7.1.6
 Templeton, D. H., 4.2.3, 4.2.6, 6.3
 Templeton, L. K., 4.2.3, 4.2.6, 6.3
 Tence, M., 4.3.4
 Teng, T. Y., 3.4
 Tennevin, J., 2.7
 Teo, B. K., 4.2.3, 4.3.4
 Terada, N., 4.2.3
 Terasaki, D., 5.2
 Terasaki, O., 2.5.1, 4.3.7, 5.2
 Terhell, J. C. J. M., 9.2.1
 Terminasov, Yu. S., 5.3
 Termonia, Y., 2.3
 Teuchert, W., 4.4.2
 Thakkar, A. J., 4.3.3, 6.1.1
 Thaller, C., 3.1
 Thatcher, D. R., 3.1
 Theisen, R., 4.2.4
 Theobald-Dietrich, A., 3.1
 Thiel, D. J., 4.2.5
 Thierry, J. C., 3.4
 Thiessen, M. J., 3.1
 Think, T. P., 4.2.4
 Thole, B. T., 4.3.4
 Thomas, D. J., 7.1.6
 Thomas, G., 3.5, 5.4.2, 7.1.6
 Thomas, J. M., 4.3.4
 Thomas, J. O., 8.6
 Thomas, L. H., 4.2.6, 7.4.3, 8.7
 Thomas, P., 7.3
 Thomas, R. K., 2.9
 Thomlinson, W., 2.3, 7.4.4, 8.6
 Thompson, A. B., 9.2.2
 Thompson, A. W., 2.2, 3.4
 Thompson, D. J., 4.2.1
 Thompson, J. B., 9.2.2
 Thompson, P., 2.3
 Thompson, T. E., 3.2
 Thomsen, J. S., 4.2.2, 5.2, 5.3, 7.5
 Thuesen, G., 4.2.3, 4.2.6
 Thut, R., 4.4.2
 Tiao, G. C., 8.1, 8.2
 Tibballs, J. E., 6.3
 Tighe, N. J., 3.5
 Tikhonov, A. N., 2.6.1
 Tikhonov, V. I., 6.1.1
 Tilton, R. F., 3.4
 Tilton, R. F. Jr, 3.4
 Timasheff, S. N., 2.2, 2.6.1
 Timchenko, T. I., 9.2.2
 Timmers, J., 5.2
 Timmins, P. A., 2.6.2
 Tindle, G. L., 4.4.3
 Tipson, R. S., 3.1
 Tissen, J. T. W. M., 3.1
 Tivol, W. F., 4.3.8
 Tixier, R., 5.3
 Toby, B. H., 2.3
 Tode, G. E., 3.4
 Toellner, T. S., 5.3
 Tofield, B. C., 8.7
 Tohji, K., 4.2.1
 Tokonami, M., 9.2.1, 9.2.2
 Tokumaru, Y., 5.1
 Tokumoto, M., 4.2.3
 Tolhoek, H. A., 7.4.3
 Toman, K., 5.2
 Tomaszewski, P. E., 5.3, 9.2.2
 Tomimitsu, H., 2.8
 Tomita, T., 9.2.1
 Tomkeieff, M. V., 5.3
 Tomlin, S. G., 4.2.1
 Tomokiyo, Y., 4.3.7, 8.8
 Tomonaga, N., 5.3
 Tonomura, A., 4.3.8
 Toorn, P. van, 7.2
 Toraya, H., 2.3, 5.2
 Tossel, J. A., 4.3.4
 Tournarie, M., 2.3
 Town, W. G., 9.5, 9.6
 Toyoshima, N., 3.4
 Trail, J., 4.2.1
 Trammell, G. T., 6.1.2
 Trautmann, N., 4.4.2
 Travennier, M., 5.2
 Travis, D. J., 7.1.6
 Treacy, M. M. J., 4.3.8, 9.1
 Trebbia, P., 4.3.4
 Tremayne, M., 8.6
 Treverton, J. A., 3.5
 Trehwella, J., 2.6.1
 Trigunayat, G. C., 5.3, 9.2.1
 Tripathi, A. N., 4.3.3
 Troitsky, V. I., 2.9
 Frost, A., 2.3
 Trueblood, K. N., 2.2, 8.3
 Trzhaskovskaya, M. B., 4.2.4
 Tse, T., 4.2.5
 Tseng, H. K., 7.4.3
 Tsernoglou, D., 3.4
 Tsu, Y., 4.2.3
 Tsuda, K., 4.3.7, 8.8
 Tsuji, M., 4.3.8
 Tsukimura, K., 3.4
 Tsuno, K., 4.3.8
 Tsutsumi, K., 4.2.3
 Tsvetkov, V. F., 9.2.2
 Tsyursky, S. I., 2.4.1
 Tu, H. Y., 3.1
 Tubbenhauer, G. A., 7.1.6
 Tucker, P., 8.2
 Tucker, T. N., 5.3
 Tugulea, M. N., 7.4.3
 Tuinstra, F., 3.4, 5.2, 9.8
 Tukey, J. W., 8.2
 Tulkki, J., 7.4.3
 Tung, M., 3.1
 Tuomi, T., 2.7
 Turberfield, K. C., 2.5.2
 Turchin, V. F., 4.4.2
 Turkenburg, J. P., 3.4
 Turner, J. N., 4.3.8
 Turner, P. S., 2.4.1, 4.2.4, 4.3.1, 4.3.2, 6.1.1
 Tutton, A. E., 3.2
 Tuzov, L. V., 5.3
 Tzafaras, N., 3.4
 Uchiyama, K., 7.1.6
 Udagawa, Y., 4.2.1, 4.2.3
 Uehling, E. A., 4.2.2
 Ueno, Y., 7.1.8
 Ugarte, D., 4.3.4
 Ullrich, H.-J., 5.3
 Ullrich, J. B., 4.4.2
 Umanskii, M. M., 7.5
 Umanskij, M. M., 5.2
 Umansky, M. M., 5.3
 Umeno, M., 5.3
 Umezawa, K., 4.2.6
 Unangst, D., 5.3
 Uno, R., 2.5.1
 Unonius, L., 2.3, 8.6
 Unwin, P. N. T., 4.3.7, 4.3.8
 Urbanowicz, E., 5.3
 Ursell, H. D., 6.1.1
 Usami, K., 7.1.6
 Usha, R., 3.4
 Uspeckaya, G. I., 5.3
 Usuda, K., 5.3
 Utlaut, M., 4.3.4
 Uyeda, N., 4.3.8
 Uyeda, R., 2.7, 4.3.7, 5.4.2, 8.8
 Vacquier, V. D., 3.1
 Vainshtein, B. K., 2.2, 2.4.1, 4.3.5
 Vajda, I., 2.3
 Valentine, R. C., 7.2
 Valvoda, V., 4.1
 Van Bommel, A. J., 4.2.6
 Van Dyck, D., 4.3.8
 Van Landuyt, J., 4.3.8
 Van Mellaert, L., 2.7
 Vanoni, F., 4.4.2
 Vansteelandt, L., 4.4.2
 Van Tendeloo, G., 4.3.8, 9.2.1, 9.2.2
 Varghese, J. N., 4.2.5
 Varnum, C. M., 4.4.2
 Vaughan, D. J., 4.3.4
 Veeraraghavan, V. G., 2.3
 Veigele, W. J., 4.2.4, 4.2.6, 7.4.3
 Veillard, A., 6.1.1
 Venghaus, H., 4.3.4
 Vercillo, R., 7.1.6
 Vergamini, P. J., 3.4
 Verheijen, M. A., 9.2.2
 Verin, I. A., 3.1
 Verma, A. J., 9.2.2
 Verma, A. R., 9.2.1
 Vernon, W., 2.2, 7.1.6
 Vettier, C., 4.2.5
 Veysseyre, R., 9.8
 Via, G. H., 4.2.3
 Victoreen, J. A., 4.2.4
 Villain, F., 4.2.3
 Villain, J., 9.8
 Villars, P., 9.3
 Vincent, M. G., 6.3
 Vincent, R., 4.3.7, 8.8
 Vincze, L., 4.2.5
 Vineyard, G. H., 2.3
 Visser, J. W., 2.3, 5.2, 9.8
 Viswamitra, M. A., 9.7
 Vittone, E., 4.2.2
 Vittot, M., 7.1.6
 Vogels, A. B. P., 2.3
 Vogt, T., 4.4.2
 Voigt, W., 7.4.2
 Voigt-Martin, I. G., 4.3.7
 Vollath, D., 4.2.4
 Volz, K., 2.2
 Von Dreele, R. B., 6.4, 8.6
 Von Festenberg, C., 4.3.4
 Voronin, L. A., 2.6.1
 Vos, A., 7.4.2
 Voss, R., 4.3.7, 4.3.8
 Vossers, H., 3.4
 Vriend, G., 3.4
 Vrublevskaya, Z. V., 4.3.5, 9.2.2
 Vucht, J. H. N. van, 9.3
 Vvedensky, D. D., 4.3.4
 Waarzak, I., 3.1
 Waber, J. T., 4.2.4, 4.2.6, 4.3.1, 6.1.1, 9.3
 Waché, C., 5.3
 Wachtel, E., 2.6.2
 Wada, N., 4.2.3
 Waddington, W. G., 4.3.8
 Wade, R. H., 4.3.8
 Wagenfeld, H., 4.2.6, 6.3
 Wagner, C. N. J., 2.3
 Wagner, R., 2.6.2
 Wagner, V., 4.4.2
 Wagshul, M. E., 4.4.2
 Wait, E., 3.4
 Wakabayashi, K., 7.1.8
 Wakita, H., 4.2.3
 Walder, V., 5.3
 Walker, A. R., 5.4.2
 Walker, G. A., 2.3
 Walker, N., 6.3
 Wall, J., 4.3.8
 Wall, M. E., 2.7
 Wallace, C. A., 2.7, 5.3
 Waller, I., 4.2.6, 7.4.3

AUTHOR INDEX

- Walls, M. G., 4.3.4
Walter, G., 2.6.1
Walters, K., 4.4.2
Walton, D., 7.1.6
Wang, D. N., 4.3.7
Wang, J., 4.3.3
Wang, M. S., 4.2.6
Wang, S. Q., 8.8
Warble, C. E., 4.3.8
Warburton, W. K., 4.2.3, 7.1.5
Ward, K. B., 3.1
Ward, R. C., 7.4.2
Ward, R. C. C., 2.7
Ware, N. G., 2.3
Warren, B. E., 2.3, 4.2.5, 4.3.5
Warrington, D. H., 1.3
Waschkowski, W., 4.4.4
Waser, J., 6.2, 8.3
Washburn, J., 3.5
Waśkowska, A., 5.3
Wassermann, G., 2.3
Watanabe, D., 4.3.7, 8.8
Watanabe, H., 4.3.7, 8.8
Watanabe, T., 4.2.3, 6.1.1
Watenpaugh, K. D., 3.4
Watkin, D. J., 2.3
Watson, D. G., 9.5, 9.6, 9.7
Watson, D. L., 2.7
Watson, K. J., 6.1.1
Watson, L. M., 4.2.2
Weaver, L. H., 3.1
Weaver, W., 2.6.1
Weber, H., 7.4.2
Weber, H.-P., 2.3
Weber, K., 6.3
Weber, P. C., 3.1
Weber, W., 4.2.6
Weckerman, B., 4.4.2
Weertman, J., 9.2.1
Weertman, J. R., 9.2.1
Wehenkel, C., 4.3.4
Weibel, E., 4.3.8
Weickenmeier, A., 4.3.2
Weickenmeier, A. L., 4.3.7, 8.8
Weigel, D., 9.8
Weik, H., 5.3
Weill, F., 9.2.2
Weill, G., 2.5.1
Weininger, M. S., 3.4
Weinstock, B., 4.3.3
Weisenberger, P., 4.2.3
Weisgerber, S., 2.2
Weiss, R. J., 6.3, 7.4.3
Weiss, Z., 9.2.2
Weissenberg, K., 2.2
Weissmann, S., 5.3
Weisz, O., 5.3
Welberry, T. R., 3.4
Wellenstein, H., 4.3.3
Wells, A. A., 7.1.6
Wells, A. F., 9.1, 9.2.1
Wells, M., 4.4.5
Welsch, R. E., 8.1, 8.2, 8.5
Welsh, R. C. J., 4.4.2
Weng, X. D., 4.3.4
Wenk, H. R., 4.3.8
Wennemer, M., 9.2.2
Wenskus, R., 7.4.3
Wenzl, H., 5.3
Werner, K., 4.4.2
Werner, P. E., 2.3, 8.6
Werner, S., 2.8
Werner, S. A., 4.4.3, 4.4.4, 6.2, 6.4, 7.5
Wertheim, G., 2.3
Wery, J. P., 3.4
West, D. R. F., 3.5
West, J. M., 3.5
West, K., 2.3
Westbrook, E. M., 3.2, 7.1.6
Westbrook, M. L., 7.1.6
Whaling, W., 7.3
Whatmore, R. W., 2.7
Whelan, M. J., 3.5, 4.3.2, 4.3.6.2, 4.3.8, 5.4.1
White, E. T., 3.2
White, T. J., 9.2.2
Whitfield, H., 4.3.7
Whitney, D. R., 5.2, 5.3
Whittaker, E. J. W., 7.1.1
Whittemore, W. L., 4.4.2
Wichmann, E. H., 4.2.2
Wick, G. C., 4.4.2
Wicks, B. J., 3.5
Widom, J., 7.1.6
Wiedmann, L., 4.2.1
Wiegand, C. E., 4.2.2
Wien, W., 4.3.4
Wiesler, D. G., 2.9
Wiewióra, A., 9.2.2
Wiewiorosky, J., 2.3
Wignall, G. D., 2.6.2
Wikinson, A. P., 8.6
Wiles, D. B., 2.3, 8.6
Wiley, D. C., 7.1.6
Wilhelm, T., 7.1.6
Wilkins, M., 5.2
Wilker, C. N., 4.3.4
Wilkins, J. W., 4.3.4
Wilkins, M. H. F., 2.6.1
Wilkins, S. W., 4.2.5, 6.1.1, 6.4
Wilkinson, A. P., 2.3
Wilkinson, C., 2.2
Wilkinson, D. H., 7.1.6
Wilkinson, M. K., 9.8
Will, G., 2.3, 5.2, 5.3, 7.3, 8.6
Wille, H.-C., 5.3
Wille, P., 4.4.2
Williams, W. G., 4.4.2
Williams, B. G., 4.3.4, 7.4.3
Williams, D. B., 4.3.8
Williams, D. E. G., 9.7
Williams, E. J., 7.5, 8.4
Williams, G. P., 7.4.4
Williams, J. C., 3.5
Williams, J. M., 2.5.2
Williams, R., 3.4
Williams, W. G., 4.4.2
Williamson, G. K., 3.5
Willis, B. T. M., 2.2, 2.3, 2.5.2, 3.6, 4.4.6, 5.3, 5.5, 6.1.1, 6.1.3, 6.2, 7.4.2, 8.6, 8.7
Willoughby, A. F. W., 5.3
Willson, P. D., 2.3
Wilson, A. J. C., 1.4, 2.3, 2.4.2, 2.5.1, 3.3, 4.2.2, 4.3.5, 5.1, 5.2, 5.3, 6.3, 6.4, 7.5, 8.1, 8.2, 9.2.1, 9.2.2, 9.7
Wilson, A. R., 4.3.8
Wilson, C. G., 5.3
Wilson, E., 3.1
Wilson, H. R., 2.6.1
Wilson, K., 7.5
Wilson, R. J. F., 7.1.6
Wilson, R. R., 4.2.1
Wilson, S. A., 2.8
Winchell, P. G., 2.3
Windisch, D., 5.3
Windsor, C. G., 2.5.2, 4.1, 4.4.6, 7.3, 8.6
Winick, H., 4.2.1, 4.2.3
Winick, M., 7.4.3
Winkler, F. K., 2.2
Winslow, E. H., 4.2.4
Wippler, C., 2.6.2
Witters, R., 2.6.1
Wittmann, H. G., 3.4
Wittmann, J. C., 3.5
Wittono, G., 4.2.6
Witz, J., 2.2, 2.6.2
Wlodawer, A., 2.2, 6.3
Woicik, J. C., 4.2.3
Wokulska, K., 4.2.2, 5.3
Wolczyr, M., 5.3
Wolf, B. de, 2.6.2
Wolf, J., 4.2.2, 5.3
Wolf, R. S., 7.3
Wölfel, E. R., 2.3, 5.3, 7.1.3, 7.1.6
Wolff, P. M. de, 1.4, 2.3, 7.1.1, 9.2.2, 9.8
Wollan, E. O., 9.8
Wolpert, R. L., 8.1
Wolstenholme, J. F. R., 5.2
Wonacott, A. J., 2.2, 3.4, 7.1.6
Wondratschek, H., 1.4, 9.8
Wones, D. R., 9.2.2
Wong, T. C., 4.3.3
Wong-Ng, W., 3.4, 5.2
Wood, G. J., 4.3.8
Wood, I. G., 3.4
Wood, R. A., 3.4
Woodruff, D. P., 4.2.3
Woodward, J. B., 4.2.6
Woolfson, M. M., 2.2, 5.3
Wooster, W. A., 2.2, 5.3, 7.4.2
Worcester, D. L., 2.6.1
Worgan, J. S., 7.1.5
Worlton, T. G., 2.5.2
Worthmann, W., 2.6.1, 2.6.2
Wright, A. F., 3.4, 4.4.2
Wright, D. J., 2.6.1
Wright, E. M., 7.5
Wright, M. M., 8.3
Wroblewski, T., 3.4
Wroe, H., 4.4.2
Wu, C. C., 2.7
Wu, D. Q., 7.1.6
Wu, Y., 5.2
Wu, Y.-Q., 4.2.1
Wulff, P., 3.2
Wunderlich, J. A., 3.2
Wurmback, P., 2.6.2
Wyckoff, H. W., 2.2, 3.4
Xiao, Q. F., 4.4.2
Xie, J., 7.1.6
Xie, S.-D., 4.3.3
Xuong, Ng. H., 2.2, 3.4, 7.1.6
Yaakobi, B., 4.2.1
Yabuki, S., 2.6.2
Yagi, K., 4.3.8
Yakovlev, V. A., 7.1.6
Yakowitz, H., 5.3
Yamada, N., 5.3
Yamada, S., 2.9
Yamagishi, H., 4.3.7
Yamaguchi, M., 2.7, 7.1.6
Yamaguchi, T., 4.2.3
Yamamoto, A., 9.8
Yamamoto, M., 3.4
Yamanaka, T., 9.2.2
Yamashita, T., 7.1.7
Yamazaki, H., 3.4
Yan, D. H., 4.3.7
Yano, Y., 7.1.6
Yao, T., 4.2.1, 4.2.3
Yap, F. Y., 4.2.2, 5.2, 7.5
Yap, Y., 5.3
Yasuami, S., 5.3
Yates, A. C., 4.3.3
Yeates, T. O., 3.1
Yeh, J. J., 4.2.4
Yin, Y., 3.1
Yocum, C. F., 4.2.3
Yoder, H. S., 9.2.2
Yonath, A., 3.4
York, E. J., 6.3
Yoshida, N., 4.2.3
Yoshimatsu, M., 2.3, 4.2.1
Yoshimura, M., 2.3
Yoshioka, H., 8.8
Yoshioka, Y., 7.1.6
Young, A. C. M., 3.4
Young, H. D., 4.4.4
Young, R. A., 2.3, 4.2.5, 5.2, 6.3, 8.6
Yvon, K., 2.3
Zaenen, J., 4.3.4
Zabel, H., 2.9
Zabidarov, E. I., 4.4.2
Zaccai, G., 2.6.2
Zach, J., 4.3.8
Zachariassen, W. H., 4.2.6, 4.4.2, 6.3, 6.4
Zagari, A., 3.1
Zagofsky, A., 2.3
Zahorowski, W., 5.3
Zakharov, N. D., 4.3.8
Zaloga, G., 3.4
Zaluzec, N. J., 4.3.4, 8.8
Zanchi, G., 4.3.4
Zanevskii, Yu. V., 7.1.6
Zani, A., 5.3
Zarka, A., 2.8
Zassenhaus, H., 1.4, 9.8
Zeedijk, H. B., 3.5
Zeidler, T., 2.9
Zeisler, R., 4.4.2
Zeissler, C. J., 4.4.2
Zeitler, E., 3.5, 4.3.4, 7.2
Zemany, P. D., 4.2.4
Zemlin, F., 3.5
Zeppenfeld, K., 4.3.4
Zeppezauer, E. S., 3.4
Zeppezauer, M., 3.4
Zerby, C. D., 4.2.6
Zernicke, F., 2.6.1
Zevin, L. S., 5.2, 5.3, 7.5
Zeyen, C. M. E., 4.4.2
Zha, C. S., 2.5.1

AUTHOR INDEX

- | | | |
|---|---|---|
| <p>Zhang, X.-J., 3.4
 Zhang, Y., 2.3, 5.2
 Zhao, Z. X., 4.3.8
 Zhdanov, G. S., 4.1, 9.2.1
 Zhou, X.-L., 2.9
 Zhoukhlistov, A. P., 9.2.2
 Zhu, J., 4.3.4
 Zhukhlistov, A. P., 4.3.5,
 9.2.2
 Zimmermann, J., 4.2.1</p> | <p>Zimmermann, S., 4.3.4
 Zinke, M., 2.6.1
 Zipper, P., 2.6.1
 Zirwer, D., 2.6.1
 Zittlau, W., 4.3.3
 Zobel, D., 3.4
 Zobetz, E., 9.1
 Zocco, T. G., 2.9
 Zolensky, M. E., 2.3
 Zolliker, P., 5.5</p> | <p>Zolotoyabko, E., 5.3
 Zoltai, T., 9.2.2
 Zorkaya, O. N., 9.7
 Zorkii, P. M., 9.2.2
 Zorky, P. M., 9.7
 Zosi, G., 4.2.2, 5.3
 Zou, X. D., 4.3.7
 Zsoldos, È., 5.3
 Zubenko, V. V., 5.3
 Zucchini, P., 7.1.6</p> |
| | | <p>Zucker, U. H., 6.1.1
 Zuñiga, F. J., 9.8
 Zuo, J., 8.8
 Zuo, J. M., 4.3.7, 4.3.8, 5.4.1,
 8.8
 Zûra, J., 5.3
 Zurek, S., 3.4
 Zvyagin, B. B., 3.5, 4.3.5,
 9.2.2
 Zvoll, K., 5.3</p> |

Subject Index

- Abbe refractometer, 160
Abbe theory, 420
Abelian module, 937
Aberrations (see also Systematic errors)
 centroid displacements, 494
 coefficients, 426
 geometrical, 46, 83, 86, 493
 in powder diffractometry, 46, 48, 50
 line-profile breadths, 494
 of an energy-dispersive diffractometer, 497
 physical, 46, 85, 86, 493, 494
 refraction, 492
 transparency, 49
Absolute calibration of SANS data, 108
Absolute intensity in SANS, 108
Absolute measurements, 505
 of lattice spacings, 505, 526, 529–533
Absorbed dose, definition of, 958
Absorption, 599, 609, 653
 air, 73
 anomalous, 416
 coefficients, 213, 218
 coefficients for Bloch waves, 735
 coefficients for neutrons, 461
 coefficients, linear, 599
 coefficients, mass, 600
 cross sections, macroscopic, 461
 edges, 191, 202, 205, 206, 209, 599
 edges, wavelengths of, 205–211
 effects, 261
 efficiency, 623
 factor, 51
 function, 261
 in XED, 86
 length, 188
 minimization by suitable mounting of single
 crystals, 163
 of generated X-rays in target, 191
 photoelectric, 599
 systematic error, 528
 systematic error, elimination, 521–524,
 528–529
 X-ray, 599–608
Absorption corrections, 170, 600–608
 neutron diffraction, 177
Accelerating voltage
 fluctuations, 424
 of a transmission electron microscope,
 determination, 539
Accessible range of d 's, 38
Accuracy, 490, 492, 707
 factors determining, 501
Accuracy of lattice-parameter (lattice-spacing)
 determination, 505, 507, 526, 533–536
 evaluation, 534
 (methods of) increasing, 532–536
 relative, 505
Acoustic modes, 653, 654
Activity, definition of, 958
Adequate protection, definition of, 958
Adhesives for mounting specimens, 163
Aggregation effects in SANS, 107
Air absorption, 73
Air and window transmission, 73
Air scattering, 74, 665
ALCHEMI (atom location by channelling
 enhanced microanalysis), 411
Alignment and angular calibration, 46
Aluminium
 dielectric coefficients, 402
 effective number density, 411
 film, 393
Ambiguities in modulated structure notation,
 936
Amorphous material, diffraction from, 24
Analyser, 530
 perfect-crystal, 665
Analysis of charge density, 713–734
Analysis of spin density, 713–734
Analytical extrapolation of lattice
 parameters, 493
Anatase, high-energy resolution spectra, 408
Anger camera for neutrons, 650
Angle definition, use of peak or centroid for,
 63
Angle-dispersive diffractometry, 491,
 495–496
Angle-reading error, 524
Angle-setting error, 524
Angles between crystal blocks, determination,
 516
Angles in direct and reciprocal space, 4
Angles of reciprocal cell, determination, 517
Angular distribution of reflections in Laue
 diffraction, 29
Angular momentum, 727
 orbital, 731
Angular setting errors (precession), 35
Angular-velocity factors, 596
Anharmonicity, 585, 722
Anisotropic mosaic crystals, 432
Anisotropic temperature factors, 697
Anisotropic thermal diffuse scattering
 correction, 654
Anode current/voltage relationship in
 electrochemical thinning, 175
Anomalous absorption, 416
Anomalous dispersion (scattering) (see also
 Dispersion), 21, 188, 241, 733
 not anomalous, 241
Anomalous transmission, 116
Anti-equi-inclination setting, 31
Antiferromagnetic order, 728
Antiferromagnetism, 140
Antiferromagnets, 728
Antimorphism, 897
Antiscatter slits, 45
Aperiodic lattice, 921, 928, 937
Approximations
 Born, 591
 Born–Oppenheimer, 713, 722, 723
 commensurate, 909
 convolution, 723
 crystal-field, 729
 dipolar, 731
 first Born, 389
 Glauber, 391
 harmonic, 723
 Hartree–Fock, 732
 impulse, 657
 kinematical, 260
 LCAO, 723
 Moliere high-energy, 260
 no-upper-layer-line, 415
 phase-grating, 260
 projected charge-density, 423
Approximations
 quasi-Gaussian, 590
 two-beam, 260
 weak-phase-object, 423
Archimedes method for density measurement,
 158
Area-detector diffractometry, 36, 170
Area detectors,
 geometric effects, 41
 non-uniformity of response, 41
 television, 630
Arithmetic crystal classes, 15, 897, 898, 911,
 917, 939, 945
 (3+1)-dimensional, 917
 as classification of space groups, 15
 classification by size, 20
 derivation of, 15
 four-dimensional, 15
 notation for, 15
 one-dimensional, 15, 16
 three-dimensional, 15–20
 two-dimensional, 15, 16
 uses of, 15
Arithmetic equivalence, 911, 939
Arithmetic point groups, 914
Arithmetically equivalent point groups, 939
Arrangements giving partial reduction of
 systematic errors, 515, 514, 521–523,
 526, 528–531
Associated Legendre polynomials, 581
Astigmatism, 421, 424
Asymmetric Bragg reflections, 526
Asymmetric (Straumanis) film mounting, 509
Asymmetry
 factor, 118
 of peaks, 67
Asymptotic behaviour of SANS curves, 110
Atom-centred expansion, 729
Atom-centred models, 714
Atom-centred spherical harmonic
 approximation, 714
Atom location by channelling enhanced
 microanalysis (ALCHEMI), 411
Atomic beams, 189
Atomic dipole moment, 716
Atomic environment types, 776
Atomic form factor, 242
Atomic orbital basis, 722
Atomic quadrupole moment, 717
Atomic scattering factors, 188, 242, 259
 analytical approximation for (tables), 578–
 581
 for electrons (tables), 263–281
 free atoms (tables), 555–564
 generalized, 565
 ions (tables), 566–577
Atomic volumes, 774
Attenuation coefficients, 213, 230, 600
Auger shifts, 204, 205
Automation, computer-controlled, 63
Avalanche multiplication, 619, 634
Avalanche production, 626
Average structure, 913
Avogadro constant, determination of, 534
Axial divergence, 46, 50, 53, 494, 497
Axial-divergence error, 494, 523
 correction for, 523
Axial holography, 427

SUBJECT INDEX

- Axial lengths, determination of, 532
 Axial reflections, 517
- Back reflection, 512–515
 Backgammon (*jeu de jacquet*) counter, 627
 Background, 68, 661
 in SANS, 108, 109
 Background counting rates, 667
 Background radiation, definition of, 958
 Backlash in diffractometer drives, 47, 503, 667
 Balanced filters, 74, 78, 79, 238
 Bandwidth, 197
 Basic polytypes, 763, 766, 767
 Basic structural features, 745–944
 Basic structure, 909
 Basis
 conventional, 944
 crystallographic, conventional, 3
 crystallographic, non-primitive, 3
 crystallographic, primitive, 2
 primitive reciprocal, 2
 standard, 944
 vectors, 944
 Bayerite family, 766
 Bayes's theorem, 681
 Beam centring, 45
 Beam conditions, 120
 Beam divergence, 45, 425, 498
 Beam-splitting crystal, 531
 Beam tilt (see also Misalignment), 524
 Becquerel, definition of, 958
 Bending magnets, 198
 Bent crystals, 77
 Berg–Barrett method, 114
 Beryllium, cross section for neutrons, 439
 Beryllium acetate, 663
 Bessel function, 589, 666
 spherical, 460, 581, 592
 Best linear unbiased estimator, 680
 Best overall fit, 493
 Beta function, 703
 Bethe approximation, 736
 Bethe ridge, 411
 Bethe theory for inelastic scattering, 406–408
 Bias, 689, 707, 709
 of midpoint of a chord, 520
 of peak, 520
 Bijvoet-pair intensity ratios, 251
 Bijvoet-pair techniques, 251
 Binding effects, 391
 Biological macromolecules, SANS, 105
 Birefringence, 153
 of polytypes, 757
 Black-body radiation in X-ray region, 198–199
 Blackman curve, 81
 Blind region, 34
 Bloch standing waves, 411
 Bloch-wave method, 259, 415–416, 426, 735
 Block collimation, 99
 Block polytypism, 760, 766
 Boltzmann statistics, 726
 Bond angles, 698
 Bond lengths, 698, 813
 Bond method, 498, 507, 508, 522–526, 529, 531, 534, 535–536
 for small spherical crystals, 525
 in multiple-crystal spectrometers, 529–531
 systematic errors, 523–524
 Bond-system diffractometers, 522, 524
 Bonding electrons, distribution of, 425
- Bonds, classification of, 791, 813
 Bonse–Hart camera, 100
 Bonse–Hart interferometer, 121
 Born approximation, 591
 first, 389
 Born–Oppenheimer approximation, 713, 722, 723
 Born series, 259
 Borrmann effect, 113, 116, 600
 Borrmann triangle, 116
 Bound nuclear scattering lengths, 593
 Boundaries, low-angle, 114
 Bragg angle, 187
 accuracy of, 505–506, 516
 determination, 506, 519, 521
 errors, 491, 494
 from a diffraction profile, 519–521
 from a photograph, 519
 from a two-dimensional map of intensity, 522
 measurement of, 505, 518
 operational definitions, 491
 Bragg–Brentano (Parrish) angle-dispersive diffractometers, 44, 495, 664
 Bragg cut-off, 438
 Bragg law, 505
 Bragg optics, 432
 Bragg reflection, 3, 432
 magnetic, 591
 Bravais classes, 910, 913, 940, 945
 (2+1)-dimensional, 915
 (2+2)-dimensional, 916
 (3+1)-dimensional, 917–918
 one-line symbols, 915, 920
 two-line symbols, 915, 920
 Bravais lattice, 3, 15, 913
 Brazil twins, 11
Bremsstrahlung, 37, 191
 for XED, 84
 Brilliance, synchrotron radiation, 197
 Brillouin zone, 657
 Broadening function, 710
 Brownian diffusion, 589
 Broyden–Fletcher–Goldfarb–Shano update, 684
- Cadmium iodide, 754, 756
 Cadmium telluride detector, 623
 Calculated powder patterns, 60
 Calculation of the twin element, 14
 Cambridge Structural Database, 790, 812
 Camera methods for lattice-parameter determination, 491, 497
 Camera radius
 extremely large, 510
 uncertainty, elimination, 510
 Camera tubes
 high-resolution TV, 633
 lead oxide, 634
 Cameras
 back-reflection, 71
 Bonse–Hart, 100
 cylindrical, 70
 Debye–Scherrer, 42, 70
 ellipsoidal mirror in SANS, 106
 flat-film, 71
 for recording lattice-parameter changes, 510
 Gandolfi, 71
 Guinier focusing, 44, 68, 70
 Kossel, 512
 Kratky, 99
- Cameras
 mirror, 106
 miscellaneous, 70
 pinhole, in SANS, 106
 pinhole, in SAXS, 100
 powder, 69–71
 small-angle, 99
 systems for synchrotron radiation, 100
 Capillary tubes for mounting specimens, 162
 Carcinogenesis, 960
 Cast films, 176
 Castaing & Henry filter, 397
 Categories of OD structures, 764
 Cauchy curves, 67
 Cauchy distribution, 689
 Causality, principle of, 246
 CBED (convergent-beam electron diffraction), 416, 540, 735
 CBED disc, 417
 Cell dimensions, incorrect assignment, 170
 Cellulose film containers, 162, 163
 Central-limit theorem, 702
 Centre of gravity (centroid), 518
 additivity, 518
 variance, 518
 Centred lattices, 3
 Centred unit cells, 3
 Centring conditions, 921
 Centring lattice vectors, 3
 Centring reflection conditions, 921
 for (3+1)-dimensional Bravais classes, 935
 Centroid of a reflection, 492
 Centroid of wavelength distribution, 494
 Ceramics, preparation of specimens, 171
 Cerenkov radiation, 401
 Cerium oxide (intensity standard), 500, 503
 Channel-cut monochromators, 77, 121
 Channelling, 189
 Characteristic function, 90
 Characteristic line spectrum, 191, 202
 Characteristic radiation, efficiency of production, 192
 Characteristic X-rays, excitation of, 510
 Characterization of detectors, 639
 Charge, 187
 Charge-cloud model, 715
 Charge-coupled devices, 629
 Charge densities, analysis of, 713–734
 Chemical
 analysis, 154
 etchants for thin section preparation, 173
 etching, 173
 polishing, 174
 properties, 154
 thinning, 175
 Chi-squared (χ^2) distributions, 702, 703
 Chiral volumes, 700
 Chlorite group, 765, 769
 Chlorite–vermiculite group, 769–770
 Choice of reflections, 535
 Cholesky decomposition, 681, 685
 Cholesky factor, 678, 681, 694, 708
 Choppers, 443
 Chromatic aberration constant, 423, 424
 Chromium oxide (intensity standard), 500, 503
 Circle packings, 746–747, 752
 Classification
 of bonds, 791, 813
 of experimental techniques, 24
 of space groups, 15
 Cleavage, 153

SUBJECT INDEX

- Close-packed structures, 752, 761, 897
interstices in, 753
lattices possible, 755
notations for, 753–754, 756
polytypes, 754–756
space groups possible, 755
spheres, 747, 752
stacking faults in, 758–760
structure determination of, 756–758
symmetry of layers, 753
symmetry of stacking, 755
voids in, 753
- Cobalt martensites, stacking faults in, 758
- Coherent inelastic scattering, 177
- Coherent multiple scattering, 661
- Coherent (Rayleigh) scattering, 554
- Coherent scattering cross sections, 594
- Coherent scattering lengths, 594
- Cohesive energy, 721
- Coincidence operations, 761
- Cold neutrons, 105
- Collimation, 37
block, 99
in-plane, 522
of neutrons, 105, 431
systematic errors connected with, 523–524
- Collimators
misalignment (tilt), 523–524
misalignment (tilt), error, 524
Soller, 82, 443
- Collinear structures, 591
- Colour groups, 21
- Column approximation, 414
- Combined aberrations, 50
- Combined methods, spectrometers for, 531
- Commensurate approximation, 909
- Commensurate modulated structures, 907–944
- Comparison measurements of lattice parameters, 508
- Compensating transformations, 940
- Compensating translations, 940
- Composite crystal structures, 907, 941
- Composition surfaces, 10
- Compton scattering, 90, 213, 242, 554, 599, 657–661, 663, 713
non-relativistic approximations, 657–659
relativistic treatment, 659–660
- Compton shift formula, 657
- Compton wavelength, 260
- Computer-controlled automation, 63
- Computer graphics for powder patterns, 69
- Computer programs
CRYSTIN, 778
data processing, 596
- Computer simulation in estimation of error, 536
- Computing methods for electron diffraction, 425
- Concentration effects, 97
elimination of, 98
- Condensed models, 766
- Condition number, 678, 682
- Conditional probability density function, 679
- Conditional Q - Q plot, 708
- Conditioning, 684
- Cone-axis photography, 35
- Confidence level, 64
- Conic section, 515
- Conical surface of an hkl reflection, 510
- Conjugate-gradient methods, 686
- Conservation laws, 657
- Constrained models, 693
- Constraints in refinement, 693, 693–701
- Contact number, 747, 749
- Continuous spectrum, 192
- Contrast
diffraction, 113, 735
extinction, 113
first-fringe, 116
match-point, 107
orientation, 113
variation in SANS, 107
variation in SAXS, 97
variation, inverse, 108
variation, spin, 108
- Conventional basis, 3, 945
- Conventional unit cell, 913
- Conventional X-ray sources, 37
- Convergent-beam electron diffraction (CBED), 80, 416, 417, 540, 735
- Convolution, 66, 505, 518, 534
- Convolution equations, 67
- Convolution of rocking curves, 663
- Convolution range, 66
- Convolution square-root technique, 103
- Coordination complexes, typical interatomic distances, 812–896
- Coordination number, 774
- Core-electron spectroscopy, 404
- Core-loss spectroscopy, 404
- Correction factor
for absorption and extinction, 612
for powders, 657
- Correction of systematic error, 653
- Correlated and uncorrelated mosaic blocks, 610
- Correlation coefficients, 724
- Correlation energy, 391
- Correlation function, 90
- Correlation length, 93
- Correlations between recorded intensities, 519
- Corundum
etching, 173
intensity standard, 500, 503
- Coulombic self-electronic energy, 721
- Counters
backgammon (*jeu de jacquet*), 627
gas-filled, 626
Geiger–Müller, 522
parallel-plate, 627
- Counting losses, 625
- Counting modes, 666
- Counting rates, 666–668
background, 667
erratic fluctuations, 666
reflection only, 666
total, 666
- Counting statistics, 64, 666–668
- Critical-voltage effect, 416, 736
- Critical wavelength, 196
- Cross sections
differential scattering, 260
dispersion corrections, 221
elastic differential scattering, 262
ionization, 407
of a rod-like particle, 93
PDDF of, 102,
plasmon, 399
scattering and absorption, 439, 444
- Cryoprotectants, 166,
- Crystal(s)
analysers, 56
datum orientation, 33
definition of, 908
displacively modulated, 909
edges, 3
ideal, 908
ideally imperfect, 113
ideally perfect, 113
intergrowth, 941
misalignment (tilt), 424
misalignment (tilt), error, 524
modulated, 908
monochromators, 76, 662
mosaicity, 170
normal, 908
orientation matrix, 33
real, 419
reflecting power, 590
rocking curves, 34, 37, 40
rocking widths, 33
selection, 148, 151
slippage within capillary, 165
systems, 6
- Crystal classes
arithmetic, 15, 911, 945
geometric, 15, 911, 913
- Crystal-field approximation, 729
- Crystal-lattice vector and crystal setting, 168
- Crystal profile, 505
- Crystal-size analysis, 81
- Crystal structure
determination by HREM, 419
images, 422
- Crystal systems
cubic, 9, 19
hexagonal, 7, 15, 19
monoclinic, 6, 16
oblique, 15
orthorhombic, 6, 16
rectangular, 15
rhombohedral, 8
square, 15
tetragonal, 7, 17
triclinic, 6
trigonal, 7, 18
- Crystal thickness
determination by electron diffraction, 416, 419
in transmission geometry, 512, 513
- Crystalline solids, 259
- Crystallite-size effects, 62
- Crystallization, 148
- Crystallographic system, 940
- Cubic closest packing, 747
- Cubic crystal system, 9, 19
- Cubic harmonics, 585
- Cumulant expansion, 588
- Cumulative distribution function, 679
- Current density, 725
- Current ionization position-sensitive detectors, 628
- Curvature, lattice, 114
- Curvilinear density functions, 588–590
- Cusp constraint, 715
- Cyclic twins, 10
- Cylinder
elliptic, 92
homogeneous, 96
inhomogeneous, 96
- Cylindrical camera, 70

SUBJECT INDEX

- Cylindrical collimators, 432
- Cylindrical detector recording, 32
- Cylindrical powder cameras, 70
- Cylindrical powder specimens, 57
- Cylindrical sample
 - 2θ scan, 57
 - for neutron diffraction, 177

- d* orbital occupancies, 722
- Darwin width, 662
- DAS (differential anomalous X-ray scattering)
 - technique, 218
- Data evaluation, 100
- Data processing
 - program for intensity factors, 596
 - single-crystal methods, 505, 517, 536
- Databases
 - inorganic structures, 778
 - organic structures, organometallic structures and coordination complexes, 790, 812
 - powder diffraction, 81
- Datum orientation of the crystal, 33
- Dauphiné twins, 11
- Davidon–Fletcher–Powell update, 684
- de Broglie’s law, 186
- Dead-time, 619, 624, 666
- Debye formula, 104
- Debye–Scherrer camera, 70, 162
 - aberrations in, 498
- Debye–Scherrer–Hull method, 42
- Debye–Waller factor, 415, 729, 735
- Deconvolution
 - in SANS, 107, 111
 - techniques, 393
- Defect types, electron diffraction, 424
- Defects, 419
 - images, 426
 - lattice, 113
 - study of, 506, 531
 - viewed by an imaging system, 633
- Deformation density, 714
- Deformation map
 - $X - N$, 714
 - $X - X$, 714
 - $X - (X+N)$, 714
- Degrees of freedom, 703
- Delay-line read-out, 627
- Delbrück scattering, 242
- Dense systems in SANS, 112
- Densitometry, 618
- Density, 154
- Density functionals, 721
- Density measurement
 - Archimedes method, 158
 - flotation, 158
 - gradient tube (column), 156
 - immersion microbalance, 158
 - penetration or swelling of solid, 156
 - pycnometry, 158
 - vibrating-string method, 158
 - volumenometry, 158
- Depth-profiling analysis, 58
- Derivative lattice, 11
- Designated radiation area, definition of, 958
- Desymmetrization of OD structures, 765
- Detection
 - efficiency, 624
 - limits, 410
 - of systematic error, 498–499, 707–709
 - quantum efficiency, 639
 - systems, 397, 663
- Detection processes (neutrons), 644–652
 - electronic aspects, 648–649
 - films, 646
 - gas ionization, 644–646
 - neutron capture, 644
 - scintillation, 645–646
- Detection systems (neutrons), 649–651
 - Anger camera, 650
 - corrections, 652
 - gas position-sensitive, 650
 - position-sensitive, 649–651
 - single detectors, 649
- Detective quantum efficiency (DQE), 624, 639
- Detector recording
 - cylindrical, 32
 - plane, 32
 - V-shaped, 32
- Detector-response correction in SANS, 109
- Detectors
 - background from, 663
 - characterization, 639
 - energy-dispersive, 622, 663
 - for electrons, 639
 - for neutrons, 644, 649
 - gas-filled, 82
 - imaging, 623
 - in X-ray spectrometers, 522, 529–531
 - multiwire, 82
 - position-sensitive, 82, 87, 100, 113, 664
 - resolution of, 82
 - scintillation, 642, 664
 - semiconductor, 622–623, 629, 642
 - single-wire, 82
 - solid-state, 82, 664
 - with wide-open window, 522, 527
- Detectors for X-rays, 618–638
 - Geiger counters, 618
 - photographic film, 498, 618
 - proportional counters, 619
 - scintillation counters, 619
 - solid-state detectors, 620
- Diagram levels, 191
- Diamagnetism, 154
- Dielectric coefficients, 401
- Dielectric description, 399
- Difference densities, 714
- Differential anomalous X-ray scattering (DAS)
 - technique, 218
- Differential methods, 527
- Differential scattering cross section, 260
- Diffraction
 - contrast, 113, 735
 - coordinates, 31
 - geometry, practical realization, 36
 - grazing-incidence, 58
 - imaging, 124
 - intensities, 596
 - spot size and shape, 37, 39
 - topography, 113, 124
- Diffraction absorption fine structure (DAFS), 254
- Diffraction profile, 48, 528, 530
 - asymmetry of, 521
 - broadening of, 521
 - double-crystal, 528
 - (in) standardized (form), 519
 - location of, 518
 - narrow, 528, 530
 - parameters of, 528
 - shape of, 521
 - symmetric, 528
- Diffraction meters
 - alignment, 46
 - area-detector, 36, 170
 - background scattering with, 664
 - Bragg–Brentano, 495
 - double-crystal in SANS, 106
 - for powder diffraction, 42
 - four-circle, 170, 516
 - gears, 503
 - inclination, 517
 - kappa, 36
 - neutron powder, 82, 652
 - neutron powder, high-resolution, 541
 - operation control, 64
 - Seemann–Bohlin, 492, 495
 - three-circle, 170
- Diffractionometry, 36
 - angle-dispersive, 491, 495–496
 - energy-dispersive, 491
- Diffuse scattering, 261
- Diffusion, Brownian, 589
- Digital image processing, 635
- Dimension of a lattice, 945
- DiOctahedral sheet, 767
- Dipolar approximation, 731
- Dipole, 716
- Dipole moment
 - atomic, 717
 - molecular, 724
- Dirac–Fock, 205
- Direct and reciprocal lattices, 2
- Direct crystallization, 174
- Direct image, 115
- Direct lattice, 412, 911
- Direct-lattice parameters, 505
- Direct method, X-ray detectors, 634
- Direct structure analysis, 103
- Direction angles of a crystal face, 4
- Disc specimens, 171
- Disc thinning method, 174
- Dislocations, 114
- Dispersion, 21, 75, 590, 600
- Dispersion corrections, 241–258
 - for XED, 86
 - tables of, 255–257
 - theory of, 243
- Dispersion surfaces, 416, 417, 736
- Displacive modulation, 907
- Distance distribution functions, 104
- Divergent-beam techniques, 510–516
 - classification, 512
 - Dopant concentration, study of, 531
- Dose equivalent, definition of, 958
- Double-beam
 - comparator, 531
 - diffractometer, 531
 - spectrometer, 531
 - technique, 531
- Double-crystal diffraction profile, 528
- Double-crystal diffractometer in SANS, 106
- Double-crystal monochromator (at synchrotron), 39
- Double-crystal spectrometers, 528–530
 - combined with double-beam technique, 531
 - with photographic recording, 510, 529
 - with symmetric (Bond) arrangement, 529
 - with white X-radiation, 529
- Double-crystal topography, 117
- Double-oscillation method, 168
- DQE (detective quantum efficiency), 624
- Drift chambers, 626

SUBJECT INDEX

- Drude model, 400
 Du Mond diagram, 117
 Duane–Hunt limit, 192
 Dynamic measurements, 626
 Dynamic *R* factor, 427
 Dynamic range, 624
 Dynamical diffraction, 80
 Bloch-wave method, 41
 calculations, 261
 many-beam, 80
 multislice method, 414
 Dynamical wave amplitudes, 414
- Eccentricity error, 524
 elimination, 521–523, 529
 EELS (electron energy-loss spectroscopy),
 219, 391–412, 428
 Effect on lattice parameters
 of electric field, 508
 of irradiation, 525
 of pressure, 508
 of temperature, 507, 510, 516, 522, 524,
 529
 Effective misorientation, 119
 Efficiency of the production of characteristic
 radiation, 192
 Eigenvalue filtering, 510
 Eigenvalues, 678
 Eigenvectors, 678
 Elastic constants, 654
 Elastic differential scattering cross section,
 262
 Elastic scattering, 416
 factors, 262
 neutron, 727
 Elastic specular neutron diffraction, 126
 Elastic stiffness constants, 654
 Elastic wave, velocity of, 654
 Electric field gradient, 719
 Electrical properties, 154
 Electrochemical thinning, 175
 Electromagnetic waves, 186
 Electron beam, misalignment, 424
 Electron binding energies, 203
 Electron density, 90, 713
 experimental, errors in, 724
 thermally smeared, 723
 Electron diffraction, 259
 absorption effects, 188, 261
 boundary conditions, 259
 computing methods, 425
 convergent-beam, 80, 735
 crystal thickness, 188, 419
 detectors for, 639–643
 determination of crystal thickness, 416,
 419
 HOLZ technique, 538
 interaction constant, 259
 intensities, 416
 Kikuchi technique, 538
 lattice-parameter determination, 537
 measurement of structure factors, 416
 oriented texture patterns, 412–414
 pattern analysis, 537
 pattern indexing, 537
 patterns, 80, 390
 potential field, 259
 preparation of specimens, 171
 propagation function, 259
 reciprocal-space representation, 412
 relativistic values, 259
- Electron diffraction
 scattering factors, 188, 259
 selected-area, 80, 538
 structure factors, 416
 transmission function, 259
 useful parameters as a function of acceler-
 ating voltage, 281
 Electron diffractometry, 413
 Electron distributions, 713
 Electron energy-loss near-edge structure
 (ELNES), 408
 Electron energy-loss spectrometry
 Castaing & Henry filter, 397
 crystallographic information from, 397
 parallel detection, 397
 Wien filter, 396
 Electron energy-loss spectroscopy (EELS),
 219, 391–412, 428
 aberrations in, 396
 analysers for, 395
 detection systems, 397
 monochromators for, 395
 non-characteristic background, 394
 spectrometers for, 394–397
 types of excitation in, 393
 Electron holography, 426, 427
 Electron inelastic scattering, 378
 Electron kinetic energy, 721
 Electron microscopy, 80, 419
 preparation of specimens, 171
 Electron multiplication
 in position-sensitive detectors, 622–623
 in proportional counters, 623
 Electron paramagnetic resonance, 190
 Electron scattering
 amplitudes, 259
 inelastic, 391
 Electron spin, interaction with neutron spin,
 725–726
 Electron transitions, 261
 Electron-transparent specimens, 171
 Electron-tube device for measurement of
 intensities, 642
 Electron wavelength of a transmission electron
 microscope, determination, 540
 Electroneutrality constraint, 715
 Electronic detectors, 639
 Electronic instability, 424
 Electrons
 properties, 187
 scattering factors, 262
 wavelength, 424
 Electropolishing, 174
 Electrostatic moments, 716, 717, 718
 Electrostatic potential, 186, 718
 Electrostatic properties, 721
 Elimination of concentration effects, 98
 Ellipse and ellipsoid packing, 751–752
 Ellipsoid, 92
 Ellipsoid of revolution, 94
 Ellipsoidal-mirror SANS camera, 106
 Elliptic cylinder, 92
 ELNES (electron energy-loss near-edge
 structure), 408
 Emission lines, 202, 203, 204, 206, 209
 Emission-spectrum profile, 519
 Empirical correction factor for preferred
 orientation, 61
 Empirical metallic radii, 774
 Enantiomorphous pairs of space groups, 20
 Energy discrimination, 625
- Energy-dispersive
 analysis, 428
 detectors, 625, 641, 663
 diffraction, 58, 619
 diffractometer, aberrations of, 497
 methods, in lattice-spacing determination,
 496, 507
 neutron diffraction, 87
 techniques, 496
 X-ray diffraction, 84, 619
 Energy-filtered lattice images, 428
 Energy-flow triangle, 115
 Energy-flow vector, 119
 Energy-loss spectrometer, 395
 Energy of radiation, 187
 Energy resolution, 396, 619, 620, 622
 Enhanced symmetry, 13
 Entrance slit, 45
 Entropy maximization, 691
 Epitaxial formation, 176
 Epitaxial layers, study of, 516, 529
 Epitaxy, 153
 EPR (electron paramagnetic resonance),
 190
 Equatorial divergence, 497
 Equatorial geometry, 516
 Equi-inclination setting, 31
 Equivalent origins, 15
 Equivalent superspace groups, 940
 Erratic fluctuations in counting rates, 667
 Errors (see also Aberrations, Systematic
 errors)
 and aberrations in lattice-parameter mea-
 surements, 490
 and uncertainties in wavelength, 493
 in angle reading, 524
 in angle setting, 524
 in experimental electron density, 725
 of the Bragg angle, 491
 Escape peaks, 622
 Estimated standard deviation, 707
 of an observation of unit weight, 702
 Estimates, 680
 Etch figures, 153
 Etching
 chemical, 173
 corundum, 173
 ion sources, 173
 sputter, 173
 Euclidean norm, 678
 Eulerian angles, 694
 Eulerian-cradle diffractometer, 517
 Eulerian-geometry diffractometer, 517
 Evaporated thin films, 173
 Ewald sphere, 26, 526, 656
 EXAFS (extended X-ray absorption fine
 structure), 24, 189, 213–220, 254, 409
 Exchange-correlation energy, 721
 Excitation errors, 414
 Excitation of characteristic X-rays, 510
 EXELFS (extended electron fine structure),
 409
 Exit beam, extremely parallel, 532
 Expectation values, 679
 Experimental techniques
 classification of, 24
 for crystal structure analysis, 25
 Exposure of radiation, definition of, 958
 Extended electron fine structure (EXELFS),
 409
 Extended solids, 730

SUBJECT INDEX

- Extended X-ray absorption fine structure [(E)XAFS], 24, 189, 213–220, 254, 409
 facilities for, 219
 External space, 944
 External standard, 499
 External vibrations, 723
 Extinction, 113, 599, 728
 contrast, 113
 correction factor for, 612
 correction, neutron diffraction, 177
 correction, XED, 86
 distance, 736
 length, 187
 primary, 609, 610
 secondary, 609, 611
 symbol, 13
 Extrapolated (midchord) peak, 518
 Extrapolation in lattice-parameter
 determination, 505, 510, 521–522, 535
 analytical, 493–494
 graphical, 493
- F* distribution, 702
 Face normals, 5
 Face or cleavage plane of a crystal, 4
 Factors determining accuracy, 501
 Family diffractions, 765
 Fano factor, 626
 Fano plots, 408
 Faraday cage, 642
 Faster-than-sound neutrons, 657
 Faults in polytypes, 758–760
 Feasible point, 693
 Fermi chopper, 443
 Fermi level, 398
 germanium, 406
 heavy metals, 406
 sulfur, 406
 transition elements, 406
 Fermi pseudopotential, 444
 Ferrimagnetism, 154
 Ferroelectricity, 154
 Ferromagnetism, 154
 Ferromagnets, 728
 Fibre optics, 632
 Fibre texture, 414
 Fibres, diffraction from, 24
 Film
 aluminium, 393
 for neutrons, 646
 germanium, 394
 Film shrinkage, 498
 error, elimination of, 509
 Filters, 38, 76
 balanced, 74, 78, 238
 Castaing & Henry, 397
 for common target elements, 79
 for neutrons, 438
 for X-rays, 236
 graphite, 82
 optimum-thickness, 238
 polarizing, 438, 440
 single, 78
 thickness, 78
 wavelength change by, 239
 Wien, 396
 with scintillation counters, 621
 Fine-grained substances, oriented texture
 patterns, 412
 First-fringe contrast, 116
 First-order Laue zone (FOLZ), 417, 418
- First/second derivatives, 65
 Fixed-count timing, 667
 Fixed-time counting, 666
 Flat-cone setting, 31
 Flat crystal, 77
 Flat-crystal monochromator, 39
 Flat-film camera for Laue patterns, 70
 Flat particles, 95
 cross-sectional inhomogeneity, 96
 molecular weight, 93
 Flat-specimen aberration, 47, 48
 Flipping coil, radio-frequency, 728
 Flipping ratios, 592, 728
 Flotation, 158
 Fluctuations
 in particle orientation, 61–62, 492
 in recording counts, 492, 666
 Fluorescence radiation, 657
 Fluorescence scattering, 661
 Fluorescence spectroscopy, 619
 Fluorescence techniques, 218
 Fluorescent screens, 640
 Fluorophlogopite reflection angles, 503
 Focal-line width, 48
 Focusing diffractometer geometries, 43
 Focusing geometry, 83
 Focusing monochromator, 82
 Focusing, neutron scattering, 443
 Focusing powder camera, 70
 Fog density, 618
 Fog level, 640
 Foil detector, 645
 FOLZ (first-order Laue zone), 417, 418
 Forbidden reflections, 527
 Form factors, magnetic, 454, 591
 Four-circle diffractometer, 516
 Four-dimensional crystal classes, 16
 Fourier imaging, *n*-beam, 422
 Fourier integral, 89
 Fourier-invariant expansions, 586
 Fourier potential, 735
 Fourier series, 89
 Fourier transformation, 89
 indirect, 111
 techniques, 393
 Free-electron gas
 Drude model, 400–401
 Lorentz model, 400
 Free-radical scavengers to improve crystal
 lifetime, 166
 Free scattering length, 594
 Frequency of space groups, 15
 Fresnel diffraction theory, 259
 Friedel-pair intensity ratios, 251
 Friedel-pair techniques, 251
 Friedel's law, 913
 Fringe patterns, stacking-fault, 116
 Fringe period, 419
 Fringe visibility, 421
 Full symbols for superspace groups, 921
- Gallium selenide, 754
 Gamma function, 702
 Gamma rays, 187
 Gas amplification, 626–627
 Gas detector for neutrons, 644
 Gas-filled counters, 82, 626
 Gas multi-electrode position-sensitive
 detectors for neutrons, 650
 Gas multiplication, 626
 Gauss–Markov theorem, 680
- Gauss–Newton algorithm, 683, 690, 693
 Gaussian curves, 66, 711
 Gaussian fits to X-ray scattering factors, 261
 Gaussian radial functions, 724
 Geiger counter, 618
 Gelatine capsules, 163
 Generalized Bessel function, 666
 Generation of X-rays, 191
 Generator stability, 72
 Geometric crystal classes, 15, 911, 945
 Geometrical aberrations, 41, 493
 for XED, 86
 Geometrical analysis of oriented texture
 patterns, 412
 Geometrical instrument parameters, 44
 Geometrical peak, 518
 Geometry of SANS, 106
 Germanium, Fermi level, 406
 Germanium film, 394
 Gibbs instability, 415
 Gibbsite–nordstrandite family, 766
Gittergeist (lattice ghosts), 907
 Givens rotations, 679
 Glauber approximation, 391
 Globular particles, 93
 Glove box, definition of, 959
 Gnomonic transformations, 29
 Gold, dielectric coefficients, 401
 Goodness-of-fit parameters, 702, 707
 Gordon–Kim model, 721
 Gradient tube (column)
 cavities, problem of, 156
 Ficoll gradient, 157
 inclusions, problem of, 156
 shallow gradient, 157
 Gram–Charlier series expansion, 586
 Graphical extrapolation of lattice parameters,
 493
 Graphite
 dielectric functions, 403
 monochromator, 37, 38, 51, 620
 Gray, definition of, 959
 Grazing-incidence diffraction, 58
 Grigson scanning method, 81
 Growth striations, study of, 530
 Growth twins, 10
 Guinier and Tennevin technique, 119
 Guinier approximation, 92, 110
 Guinier camera, 162
 Guinier focusing, 70
- Half-life, definition of, 959
 Half-width, 506, 519, 522, 526, 528
 (methods of) reducing, 526
 minimum, 506
 of wavelength distribution, 506
 Hamilton's *R*-factor ratio test, 704
 Hankel transform, 102
 Hard-sphere interference model, 98
 Hard X-rays, 187
 Hardness, 153
 Harmonics, cubic, 585
 Hartree–Fock
 approximation, 732
 model, 243
 self-consistent field, 659
 wavefunctions, 460
 Hat matrix, 705
 Heat capacity, 154
 Heavy metals, Fermi level, 406
 HEED (high-energy electron diffraction), 412

SUBJECT INDEX

- Helimagnetic order, 728
 Hellmann–Feynman constraint, 715
 Hermite polynomial tensors, 586
 Hessian matrix, 684
 Heterogeneous packing, 746
 Hetero-octahedral sheet, 767
 Hexacontatetrapole, 716
 Hexadecapole, 716
 Hexagonal
 - closest packing, 747, 752
 - crystal system, 7, 15, 19
 High-angle annular dark-field (HAADF)
 - images, 428
 High-angle Bragg reflections in lattice-parameter determination, 509, 522, 529, 532
 High-energy electron diffraction (HEED), 412
 High-order Laue zone (HOLZ), 418, 424, 538, 539
 High-pressure structural studies, 87
 High-purity germanium detector, 622
 High-resolution electron microscopy (HREM), 261, 419, 773
 High-resolution energy-dispersive diffraction, 58
 High-resolution experiments, 97
 High-resolution powder diffractometers
 - D2B at Institut Laue–Langevin, 541
 - HRPD at Rutherford Appleton Laboratory, 541
 High-sensitivity lattice-parameter comparison, 531–532
 High-tension supplies, unsmoothed, 667
 Higher-dimensional crystallography, 908
 Histogramming memories, 626
 Hohenberg and Kohn theorem, 721
 Hollow cylinders, 92
 Hollow particles, 96
 Holographic reconstructions, 427
 Holohedry, 12, 939, 945
 HOLZ (high-order Laue zone), 418, 424, 538, 539
 Homogeneous cylinder, 96
 Homogeneous packing, 746
 Homogeneous particles, 93
 Homogeneous triaxial bodies, 92
 Homometric mapping, 751
 Homo-octahedral sheet, 767
 Horizontal divergence, error, 525
 Horizontal Soller slits, 56
 Householder transformations, 679, 686
 HREM (high-resolution electron microscopy), 261, 419, 773
 Hydrogen-atom scattering factors, 565
 Hydrogen bonding, 906
 Hyperbolic Bessel function, 666
 Hyperfine interaction, 732
 Hyper-resolution, 427
 Hypothesis testing (no remaining systematic errors), 523

 ICDD Powder Diffraction File, 81
 Icosahedral viruses, SANS, 111
 Ideal crystals, 908
 Ideally imperfect crystals, 113
 Ideally perfect crystals, 113
 Idempotency conditions, 722
 Idempotent, 705
 Identity period, 752
 Identity period determination, 508
 - accuracy of, 510
 Ill-conditioned least-squares problems, 101
 Image intensifiers, 122, 632, 635
 Image processing, 427, 635
 Imaging detectors, 623
 Imaging plates, 426, 635, 641
 Immersion microbalance, 158
 Impulse approximation, 657
 Incidence aperture, 53
 Incident-beam monochromatization, 120
 Incident-beam monochromator, 53
 Inclination diffractometer, 517
 Inclination of plane of specimen, 494
 Incoherent elastic scattering cross section, 595
 Incoherent multiple scattering, 108, 661
 Incoherent scattering, 177, 554
 Compton, 90
 - cross section, 594
 - functions (Table 7.4.3.2), 658
 - level, 109
 Incommensurate modulated structures, 907–944
 Index of refraction, 600
 Indexing powder patterns, 541
 Indirect method, X-ray detectors, 634
 Indirect transformation method, 101
 Indium antimonide, dielectric coefficients, 401
 Induced matrix norm, 678
 Inelastic coherent scattering, 109
 Inelastic crystal excitations, 425
 Inelastic scattering, 378, 416, 657
 - Bethe theory, 406–408
 - electrons, 391
 - neutrons, 391
 Inelastic scattering factors for electrons (Table 4.3.3.2), 378–388
 Inelastically scattered electrons, 81
 Influential data points, 705, 708
 Information resolution limit, 424
 Infrared radiation, 187
 Inhomogeneities in matter, 105
 Inhomogeneous cylinders, 96
 Inhomogeneous particles, 96
 Inner moments, 718
 Inner surface area, 109
 Inorganic compounds
 - silicates, 766–769
 - typical interatomic distances, 778–789
 Inorganic Crystal Structure Database, 778
 Insertion devices, 197
 Instrument parameters, geometrical, 44
 Instrumental broadening and aberrations, 47, 101
 Integrated intensity
 - for XED and powder samples, 85
 - formulae for, 600
 - of a reflection, 668
 Integrated reflections, 114
 Intensity, 519
 - distribution, two-dimensional map, 522
 - of characteristic lines, 191
 - of diffracted intensities, 554–595
 - standards, 500
 - statistics, 519
 - variation with take-off angle, 74
 Intensity factors, 596
 - angular velocity, 596
 - data-processing programs for, 596
 - in single-crystal methods, 596–598
 - polarization, 596
 - trigonometric, 596–598
 Interatomic distances, 778–896
 - in inorganic compounds, 778–789
 - in metals, 774–777
 - in organic compounds, 790–811
 - programs for calculating, 778
 Interaxial angles, determination, 525
 Interband transition, 401
 Interference model, hard sphere, 98
 Interferometers
 - Bonse & Hart, 121
 - Fabry–Perot, 533
 Interferometry, combined optical and X-ray, 533–534
 Intergrowth crystal structures, 907
 Interlaboratory comparison, 536
 Internal
 - space, 912, 937, 944
 - standard, 499
 - translation, 912
 Interparticle interference, 97, 98
 Interpenetrating packing, 751
 Interplanar spacing determination
 - accuracy of, 505
 - precision of, 505
 Interquartile range, 690
 Intersecting-Kikuchi-line method, 736
 Interstices in close-packed structures, 753
 Intramolecular multiple scattering, 392
 Intrinsic background (neutrons), 651
 Intrinsic component, 917
 Intrinsic efficiency, 622
 Intrinsic part of a space group, 940
 Inverse contrast variation, 108
 Inversion twins, 10, 12
 Ion-beam thinning, 171–173
 Ion-implanted silicon, 525
 Ion sources for etching, 173
 Ionic radii, 778
 Ionicity, degree of, 425
 Ionization cross sections, 407
 Ionizing radiation
 - definition of, 958
 - protection from, 962–963
 Irradiated area
 - displacement of, 526
 - exactly defined, 522
 Irradiated specimen length, 45
 Irradiation, study of effects of, 516, 525
 Isometric point groups (crystal classes), 939
 Isotopic replacement, triple, 111
 IUPAC notation, X-ray diagram levels, 191

 Jagodzinski notation, silicon carbide, 754
 Johann monochromator, 664
 Johansson monochromator, 664
 Joint probability density function, 679

 $K\alpha$ doublet, 62, 510, 512–515
 $K\alpha_1$ and $K\beta_1$ wavelengths in lattice-spacing determination, 521
 $K\alpha_2$ radiation, elimination, 510
 $K\beta$ line in lattice-spacing determination, 507
 Kaolinite, 769
 Kappa diffractometer (definition), 37
 Kappa model, 714
 Kikuchi lines, 419
 Kikuchi patterns, 735
 Kikuchi techniques, 538
 Kinematic image, 115
 Kinematic theory, 590
 Kinematical approximation, 80, 260, 262

SUBJECT INDEX

- Kinetic energy, 721
 Kitajgorodskij's categories, 897
 Knife-edge calibration, 498
 Kossel
 camera, 512
 cone, 510, 514
 lines, 510–515
 lines, intersections of, 512–513
 method, 510–516
 pattern, 512–514, 735
 plane, 513
 Kramer's constant, 192
 Kramers–Kronig transform, 245
 Kratky cameras, 99
- Label triangulation, 111
 Labelling, 97
 isotopic, 108
 Lagrange polynomials, 111
 Lagrange undetermined multipliers, 693
 Lambda curves (Laue), 39
 Lambda symmetry (operations), 763
 Lamellar particles, 97
 Lamellar textures, 412
 Lanthanum hexaboride, instrumental sample, 501
 Large-scale problems, 685
 Larmor frequency, 728
 Laser, He–Ne, 533
 Laser plasma X-ray sources, 189
 Latex particles, 107
 Lattice(s)
 aperiodic, 937
 Bravais, 3, 15, 913
 centred, 3
 curvature, 114
 defects, 113
 derivative, 11
 dimension, 937
 direct, 911
 direct and reciprocal, 2
 for close-packed structures, 755
 holohedry, 939
 point, 2
 rank, 937
 twin, 10
 vector, 2
 vector centring, 3
 vector, reciprocal, 2
 Lattice bases, standard, 938
 Lattice-fringe images, 421
 Lattice ghosts (*Gittergeister*), 907
 Lattice-parameter changes, study of, 507, 510, 522, 525, 529–530
 Lattice-parameter determination, 490–541
 aberrations in, 493
 absolute, 505, 525, 529–532
 for rectangular systems, 528
 from one crystal mounting, 509, 510
 from separate photographs, 509
 HOLZ techniques, 538, 540
 inter-laboratory comparison, 536
 Kikuchi techniques, 538–540
 least-squares methods, 498
 local, 525, 529, 532
 neutron diffraction, 541
 of cubic lattice, 528
 of deformed lattice, 513–515
 of imperfect crystal, 522
 of large flat slab, 507, 522, 524, 527
 of perfect crystal, 522
- Lattice-parameter determination
 of polycrystals (Kossel method), 515
 of single crystals, 505–536
 of small spherical crystals, 507, 525
 of standard crystal, 507
 powder diffraction, 491, 506, 509, 518, 521
 precision, 505, 509, 515, 526, 530, 536
 preliminary, 507
 relative, 505
 sensitivity of, 505, 507, 532
 standards, 499
 systematic errors in, 493, 498
 wavelength problems, 492
 Lattice-parameter determination methods
 camera, 497, 507
 diffractometer, 495–496, 516–517
 electron diffraction, 537–540
 energy-dispersive, 496–497
 neutron diffraction, 541
 non-dispersive, 506, 509, 526, 533–534
 polycrystalline X-ray, 491–504
 pseudo-non-dispersive, 506, 526, 528
 single-crystal X-ray, 505–536
 synchrotron, 495
 whole-pattern, 496
 X-ray, 534
 Lattice-parameter differences, determination
 of, 507, 522, 525, 528–531
 Lattice-parameter measurements
 accuracy of, 490
 discrepancy for silicon, 490
 possible effect of filter, 239
 Lattice parameters
 of silicon, 490, 499
 of silver, 499
 of tungsten, 499
 Lattice-spacing comparators, 530
 Laue class, 13, 938
 Laue diffraction
 multiplicity distribution, 27
 neutron single-crystal, 87
 Laue geometry, 26, 38
 Laue method, 663
 Laue patterns, 27, 124
 flat-film camera for recording, 70
 Laue photography combined with powder diffraction, 506
 Laue point group, 908, 913, 938
 Laue sphere, 26
 Layer-line screen (precession), 34
 Layer-line screen (Weissenberg), 35
 Layer lines, 414
 Layer polytypism, 760, 766
 Layer silicates, 414
 Layer stacking, 752–773
 in polytypes, 760–773
 LCAO (linear combination of atomic orbitals)
 approximation, 715, 723
 Lead oxide camera tubes, 634
 Leakage radiation, definition of, 959
 Least-dense sphere packings, 748, 749
 Least-squares calculations, 678–688
 estimator, 680
 nonlinear, 682
 software for, 688
 Least-squares refinement, 504, 505, 510, 517
 problems, 101
 LEED (low-energy electron diffraction), 24
 Legendre polynomial, 565
 associated, 581
 Lens configuration, 514
- Lens-shaped figures, 512–514
 Levenberg–Marquardt algorithm, 683
 Leverage, 705, 708
 Libration (rotational oscillation), 589
 Libration tensor, 697
 Librational model, 697
 Librational temperature factor, 723, 724
 Licensable quantity, definition of, 959
 Likelihood, 689
 Likelihood-ratio method, 523
 Limited projection topographs, 116
 Limiting resolution of X-ray detectors, 634
 Line focus, 194
 Line profile, 518
 calculated by convolution, 662
 Linear algebra, 678
 Linear attenuation coefficient, 213
 Linear combination of atomic orbitals (LCAO)
 approximation, 715, 723
 Linear estimator, 680
 Linearity, 621
 Linearity of response, 619
 Lithium-drifted germanium detector, 622
 Lithium-drifted silicon detector, 622
 Live X-ray topographs, 122
 Local measurements (topography), 516, 525–527, 529
 Location of diffraction profile, 518
 Long-period polytypes, 757
 Lorentz factor, 497, 596, 710
 Lorentz model, 400
 Lorentz-polarization factor, errors, 60, 523, 596
 correction for, 523
 Lorentzian curves, 66
 Lorentzian functions, 711
 Lorentzian profiles, 67, 400
 Low-angle boundaries, 114
 Low-angle reflections, confusion with escape peaks, 622
 Low-energy electron diffraction (LEED), 24
 Low- Q scattering, 105
 Lower quartile, 813
 Luminescence, photostimulated, 635
- Macromolecules, biological, use of SANS, 105
 Macroscopic absorption cross section, 461
 Magnetic
 Bragg reflection, 591
 domains, 124
 form factors, 454, 592
 interaction vector, 591
 orbital structure factor, 731
 ordering, 725
 space group, 591
 Magnetic properties, 154
 of the neutron, 108
 Magnetic scattering
 of neutrons, 590
 of neutrons, elastic, 591
 X-ray, 733
 Magnetic structure factors, 591, 726, 727
 unit-cell, 591
 X-ray, 733
 Magnetism, 725
 Magnetization density, 591, 725
 Magnetostatic energy, 731
 Magnetostatic properties, 731
 Magnets, bending, 197
 Main reflections, 907

SUBJECT INDEX

- Mains-voltage fluctuations, 667
- Many-beam dynamical diffraction, 80
- Marginal probability density function, 679
- Mass absorption coefficients, 213, 600
- Mass attenuation coefficients, 213–214
tables of, 230–236
- Mathematical interpretation in single-crystal methods, 536
- Mathematical theory of powder diffractometry, 518
- Matrix diagonalization, 425
- Matrix formulae for two-circle diffractometer, 517
- Maximum degree of order (MDO) polytypes, 762, 767, 768, 769, 770, 772
- Maximum dimension of a particle, 93, 102
- Maximum-entropy method, 428, 689
- Maximum-likelihood estimate, 689
- Maximum-likelihood methods, 691
- Maximum oscillation angle, 33
- Maximum primary dose (MPD), 960
- MDO (maximum degree of order) polytypes, 762, 767, 768, 769, 770, 772
- Mean, 679, 813
- Mean-square broadening, 493
- Measured-as-negative intensities, 667
- Measured profile, 505
as a convolution, 503
- Measurements of lattice parameters
absolute, 505
relative, 505
- Mechanical (deformation, glide) twins, 10
- Mechanical properties, 153
- Mechanical twins, 10
- Median, 520
absolute deviation, 690
variance of, 520
- Melt-grown crystals, 114
- Melting point, 154
- Membrane proteins, 24
- Mercury iodide detector, 623
- Mercury sulfide chloride, γ - $\text{Hg}_3\text{S}_2\text{Cl}_2$, 771, 772
- Meroheral point groups, 12
- Meso-octahedral sheet, 767
- Metallic radii, empirical, 774
- Metals
preparation of specimens, 173
texture studies, 414
typical interatomic distances, 774–777
- Methyl methacrylate resin containers, 162
- Metric tensor, 694
- Mezei flipper, 442
- Mica containers, 162
- Mica group, 765, 768–770
- Microanalysis, 54
quantitative, 410
- Microdensitometer, 618
- Microdiffractometers, 491
- Microdiffractometry, 53
- Microfocus sources, 71
- Microrrefractometer, 160
- Microtome, 171
- Microwaves, 190
- Midchord peak, 518
- Midpoint of a single chord, 518
bias, 520
variance, 520
- Miller formulae, 5
- Miller indices, 5, 11
- Mimetic twinning, 153
- Mirror cameras, 106
- Mirrors, 37
for neutrons, 436
reflection devices, 435
- Misalignment, 506, 531, 535–536
diffraction, 424
of electron beam, 424
- Misorientation functions, 414
- Misorientation matrices, 33
- Mixed-layer structures, 760
- Model calculations in SAXS, 103
- Model fitting in SANS, 111
- Modelling of space-group frequencies, 897
- Moderators for neutrons, 431
- Modulated crystal structures, 907–944
examples, 936
types defined, 907
- Modulation
displacive, 907
occupation, 907, 913
relations, 941
- Modulation transfer function (MTF), 634
- Moiré topography, 121
- Molecular beams, 189
- Molecular biology, isotopic composition in SANS, 107
- Molecular dipole moment, 725
- Molecular geometry, 812
- Molecular organic structures
packing in, 897
space-group distribution of, 905
- Molecular packing, 904
- Molecular scattering factors, 390
- Molecular weight, 93
- Moliere high-energy approximation, 260
- Moment, 679
- Moments of a charge distribution, 716
- Momentum density distributions, 659, 713
- Momentum space, 713
- Monitor methods, 72
- Monitoring circuits, 619
- Monochromatic radiation, θ - 2θ scan, 55
- Monochromatic still exposure, 30
- Monochromator-scan method for diffraction, 85
- Monochromators, 37, 43, 46, 51, 76, 99, 120, 395, 528, 662
alignment, 46
angular calibration, 46
channel-cut, 77, 121, 239
common types, 77
comparison of, 433
crystal, 76
different diffraction geometries, 43
diffracted beam, 44, 46
double-reflection, 239
focusing, 82
for neutrons, 432–435
for X-rays, 236
graphite, 38, 239, 620, 664–665
incident-beam, 53
Johann, 664
Johansson, 664
mosaic crystals, 432, 662
multi-reflection, 239
perfect-crystal, 39, 443, 663
pyrolytic graphite, 46, 72
quartz, 661
scanning-crystal, 622
single-reflection, 239
- Monoclinic crystal system, 6, 16
- Monodisperse systems, 91
- Monopole, 716
- Morphological properties, 153
- Morphology, and mounting of single crystals, 164
- Morse approximation, 389
- Mosaic-crystal monochromator, 662
- Mosaic spread, 432
- Mosaicity, 443
neutron diffraction, 433
- Moseley's law, 76
- Mössbauer radiation, 656
- Mössbauer spectroscopy, 189, 719
- Mott–Bethe formula, 261
- Mounting of specimens, 163
biological macromolecule single crystals, 165
polycrystalline specimens, 162
single crystals, 164
small organic and inorganic single crystals, 164
- Moving splines, 111
- Multichannel pulse-height analyser, 496
- Multi-component complex, label triangulation, 111
- Multidetector, 82
- Multilayer materials, 171
- Multilayer polarizers, 436
- Multiple-beam methods, 531
- Multiple-crystal techniques, 528–532
- Multiple diffraction, 513
- Multiple-diffraction methods, 526–528
with counter recording, 526–528
with photographic recording, 513
- Multiple-diffraction pattern, 527
indexing, 527
- Multiple-exposure techniques, 514
- Multiple-order reflections (Laue), 27
- Multiple scattering, 661
deconvolution techniques, 391
incoherent, 661
intramolecular, 392
neutron diffraction, 177
Poisson distribution, 393
problems associated with, 392
- Multiple twins, 10
- Multiplicity distribution in Laue diffraction, 27
- Multiplicity factor, 596
- Multipole expansions, 103, 714, 716, 730
- Multipole functions, angle dependence, 583
- Multipole model, 716
- Multi-reflection devices, 121
- Multislit method, 414–416, 425
programs for, 415
- Multiwire detectors, 82
- Multiwire proportional chamber (MWPC), 627
- Muons, 189
- Muskovite, 771
- n*-beam Fourier imaging, 422
- n*-particle density matrix, 713
- n*-particle wavefunction, 713
- Natural background, definition of, 959
- Near-edge fine structures, 408
- Neighbours, nearest (direct) and next-nearest (indirect), 775
- Net planes, 4
- Neutron Anger camera, 650
- Neutron-beam definition, 431
- Neutron-capture reactions, 644–645

SUBJECT INDEX

- Neutron diffraction, 26
 - cross section (tables), 445–461
 - energy-dispersive, 87
 - Laue, 87
 - powder, 82
 - preparation of specimens, 177
 - scattering lengths (tables), 445–461
 - time-of-flight, 87
 - time-of-flight, powder, 88
 - white-beam, 87
- Neutron polarization, 592
- Neutron powder data, 68
 - Rietveld analysis of, 710–712
- Neutron resonance spin echo (NRSE), 443
- Neutron scattering, 591–595
 - elastic, 728
 - focusing, 443
 - form factors, 454–461
 - inelastic, in spectroscopy of solids, 391
 - magnetic, 591, 726
 - monochromators, 443
 - nuclear, 593
 - polarized, 728
 - resolution functions, 443
 - scattering factors, 454–461
 - Soller collimators, 443
 - spectrometers, 444
- Neutron sources
 - pulsed spallation, 189
 - reactors, 430
 - spallation, 87, 430
- Neutron spin, 444
 - interaction with electron spin, 725–726
- Neutrons
 - absorption coefficients (Table 4.4.6.1), 461
 - cold, 105
 - faster-than-sound, 657
 - films for, 646
 - filters, 438
 - guide tubes, 432, 435
 - moderated, 430
 - monochromators, 432
 - polarized, 108, 592
 - properties, 187
 - reflectivity, 126, 433
 - reflectometry, 126
 - scattering-length densities, 441
 - slower-than-sound, 657
 - topography, 124
- Next-nearest (indirect) neighbours, 775
- NFZ relation, 761
- NIST (National Institute of Standards and Technology) silicon standard, 495
- NMR (nuclear magnetic resonance), 154, 190
- No-upper-layer-line approximation, 415
- Nodal reflections, 27
- Noise reducer for image processing, 635
- Non-crystalline samples, diffraction from, 24
- Non-crystallographic symmetry elements, 907
- Non-dispersive methods (techniques), 506, 526, 533–534
- Non-linear least squares, 683
- Non-periodic systems, 89
- Non-stochastic effects, 959
- Non-systematic interactions, 81
- Non-uniformity of response, area detectors, 41
- Normal attenuation, 214
- Normal-beam equatorial geometry, 36
- Normal-beam rotation method, 31
- Normal crystal, 908
- Normal equations, 680, 682
- Normal modes of vibration, 653
- Normal probability distribution function, 66, 702
- Normalized spin density, 727
- Notations for close-packed structures, 753, 758
- Nuclear magnetic resonance (NMR), 154, 190
- Nuclear reactors, 430
- Nuclear scattering
 - amplitude, 594
 - length, bound, 594
 - of neutrons, 593
- Nuclear structure factors, 595, 725, 732
- Nuclear Thomson scattering, 242
- Numbers of reciprocal-lattice points within resolution sphere, 28
- Numerical approximations to $f(s)$, 261
- Numerical methods, 685
- Objective-lens defocus, 421
- Oblate ellipsoid of revolution, 94
- Oblique crystal system, 15
- Oblique-texture electron diffraction patterns, 412
- Obliquity, 41
- Occupation modulation, 907, 913
- Octahedral sheet, 767
- Octupole, 716
- OD (order–disorder)
 - diffraction pattern, 763
 - groupoid families, 761, 763, 765, 773
 - layers, 764
 - packets, 765
 - repeat unit, 764
 - structures, 761, 764
 - structures, desymmetrization of, 765
 - theory, 761
- One-crystal spectrometers, 521–526
 - asymmetric (arrangement), 521–522
 - symmetric (arrangement), 521–526
- One-dimensional crystal classes, 15, 16
- One-line symbols for Bravais classes, 915, 920
- One-particle reduced density matrix, 726
- Open shell electrons, 727
- Operations in polytypes, 762–763
- Optic modes, 653
- Optical
 - activity, 153
 - antipodes, 153
 - diffractograms, 427
 - interferometry, 533–534
 - properties, 153, 160
 - reflectivity, graphite, 403
 - wavelength as a standard, 533
- Optimization (of measurement), 517–520, 526–528, 532–534, 667
- Optimum design of experiments, 74, 702
- Orbital angular momentum, 731
- Orbital magnetism, 731
- Orbital moment, 727
- Orbital momentum, 726
- Orbitals, Slater-type, 584
- Order–disorder (OD)
 - diffraction pattern, 763
 - groupoid families, 761, 763, 765, 773
 - layers, 764
 - packets, 765
 - repeat unit, 764
 - structures, 761, 764
 - structures, desymmetrization of, 765
 - theory, 761
- Organic compounds
 - preparation of specimens for electron diffraction and electron microscopy, 176
 - space-group distribution of molecular, 905
 - typical interatomic distances, 790–811
- Organometallic compounds
 - label triangulation, 111
 - typical interatomic distances, 812–896
- Orientated solidification, 176
- Orientation contrast, 113
- Orientation matrix, 516, 535, 537
 - determination, 517
 - four-circle diffractometer, 516–517
- Orientation of crystals, 134
- Orientation of the lattice relative to the point group, 15
- Oriented texture patterns, 412
- Origin of angular scale
 - recovery of, 530
 - uncertainty of, 530, 536
- Original profile, 505, 520
 - half-width of, 506, 520
- Origins, equivalent, 15
- Orthorhombic crystal system, 6, 16
- Oscillation angle, maximum, 33
- Oscillation photographs processing, 510
- Outer moments, 718–720
- Outlier removal, 813
- Packing
 - contact number in, 746–747, 752
 - density of, 746
 - heterogeneous, defined, 746
 - homogeneous, defined, 746
 - interpenetrating, 751
 - of circles, 746–747, 752
 - of ellipses and ellipsoids, 751–752
 - of layers, 752–773
 - of spheres, 746–751, 752, 904
 - stable, 747, 750
 - types, tables of, 747–748
 - voids in, 750
- Pair-distance distribution function (PDDF), 90
- Pair-production cross sections, 213
- Parafocusing, 47
- Parallax, 41, 624
- Parallel-beam geometry, 54, 663
- Parallel detection, 397
- Parallel-plate counters, 627
- Parallel recording, 639
- Paramagnetism, 154
- Paramagnets, 728
- Parasitic scattering, 661
- Partial coincidence operations, 761
- Partial structure factors in SANS, 112
- Partial wave phase shifts, 389
- Partially stimulated reflections (partials), 34, 39
- Particle(s), 186
 - latex, 107
 - mass in SANS, 110
 - maximum dimension, 102
 - parameters of, 91
 - shape in SANS, 110
 - shape in SAXS, 93
- Particle orientation, fluctuations, 492
- Particle size, 62, 89, 162
 - distribution, 111
- Patterson synthesis, 21
- Pauli principle, 412
- Pauling model of hydrous phyllosilicates, 767

SUBJECT INDEX

- PCD (projected charge-density)
 approximation, 423
- PDDF (pair-distance distribution function),
 90
- Peak
 asymmetry, 67
 displacements, 518
 height, 518
 of a reflection, 492
 satellite, 75
 search, 65
 shift, 518
 variance, 520
- Peak flux, 431
- Peak-shape function, 710–711
- Peak-to-background ratio, 65, 661
 with scintillation counters, 622
- Pearson VII function, 67, 711
- Pendellösung*, 250
- Penetration depth, 58
 of X-rays, methods of reducing, 525
- Peptides, standard coordinates, 699
- Per cent point function, 708
- Perfect-crystal analysers, 665
- Perfect-crystal monochromators, 444, 663
- Perfect single crystals, 510, 519
- Persistence length, 93
- Petrographic sections, 171
- Phase analysis, electron diffraction, 412
- Phase diagrams, determination of, 510
- Phase-grating approximation, 260
- Phase identification, 42, 81
 from electron-diffraction patterns, 81
- Phase-space analysis, 661
- Phase-space diagrams, 661
- Phase transitions, study of, 509, 522, 525,
 529
- Phonon absorption, 656
- Phonons, 261, 653
- Phosphor screens, 634
- Phosphoric acid as etchant, 173
- Phosphors, 630
 storage, 635
- Photoabsorption measurements, 406
- Photoconductive layer
 amorphous Se–As alloy, 635
 lead oxide, 634
 X-ray-sensing, 634
- Photo-effect data, theoretical, 221
- Photoelectric absorption, 599
- Photographic emulsions, 640
- Photographic film
 graininess, 640
 properties of, 640
 shrinkage, 498
- Photographic methods
 electron diffraction powder pattern, 81
 single-crystal, 508–516
 single-crystal, classification of, 508
- Photographs
 cone-axis, 36
 setting (precession), 35
 upper-layer (precession), 35
 upper-layer (Weissenberg), 35
 zero-layer (precession), 35
 zero-layer (Weissenberg), 34
- Photomultiplier tube, 619
- Photon energy, 84
- Photon-induced X-ray analysis, 189
- Photon interaction cross sections, tables of,
 223–229
- Photon noise, 633
- Photon scattering cross section, 213
- Photons, 186
- Photostimulated luminescence, 635
- Phyllosilicates, 413, 766–771
- Physical aberrations, 493, 493
 for XED, 86
- Physical constraints, 715
- Physical properties, relation to crystal
 structure, 151–153
- Picture elements (pixels), 634
- Piezoelectricity, 154
- Pinhole cameras
 in SANS, 106
 in SAXS, 100
- PIX (proton-induced X-ray analysis), 189
- Pixels (picture elements), 634
- Planck's law, 186
- Plane detector recording, 32
- Plane-wave topography, 121
- Plasmas, 191
- Plasmon(s), 261, 403
 cross section, 399
 dispersion, 398
 energies in metals, 397
 excitation energy, 660
 lifetime, 399
 scattering, 657, 661
- Plasticity, 153
- Pleochroism, 153
- Point group(s), 939
 arithmetic, 913
 arithmetically equivalent, 939
 definition of, 945
 equivalence class, 939
 geometrically equivalent, 939
 Laue, 908, 913
 merohedral, 12
 orientation of the lattice relative to, 15
 reducible, 940
- Point lattice, 2
- Point row, 3
- Point-spread factor, 40
- Point-spread function (PSF), 625
- Poisson distribution, 393, 666, 690
 difference of two, 666
 sum of two, 666
- Poisson statistics, 519
- Poisson's electrostatic equation, 719
- Polarization, 193
 dependence, 732
 incident neutron, 727
 index, 611
 neutron, 592
 rotation of, 593
 vector, 654
- Polarization factor, 51, 596
 for XED, 85
- Polarized neutron scattering, 728
- Polarized neutrons, 108, 592
- Polarized radiation, circularly, 734
- Polarizers, multilayer, 435
- Polarizing
 filters, 438
 microscope, 154
 mirrors, 440
 neutron guides, 431
- Polishing, 174
- Polycrystalline samples for neutron
 diffraction, 177
- Polydisperse systems, 89, 99
- Polymers
 isotopic composition in SANS, 107
 preparation of specimens for electron
 diffraction and electron microscopy, 176
 texture studies, 414
- Polypeptides, restraints in refining, 699–700
- Polysynthetic twins, 10
- Polytypes, 754–756, 760–773
 basic, 762
 families, 761
 faults in, 758–760
 layer stacking in, 760–773
 long-period, 757
 maximum degree of order (MDO), 762
 mixed-layer structures, 761
 regular, 762
 rod, 760, 766
 simple, 762
 standard, 762
 turbostratic structures, 761
- Polytypism
 definition, 760
 layer, 766
 oriented texture patterns, 412
 rod, 760, 766
- Position-sensitive detectors, 82, 87, 100, 113,
 619, 623–633, 664
 choice of detectors, 623
 detection efficiency, 623–624
 detector properties, 623–625
 for neutrons, 649, 652
 localization of detected photon, 627
 photographic film, 623
 size and weight, 626
 software packages, 633
 storage phosphors, 634, 635–638
- Positron annihilation spectroscopy (PAS),
 189
- Positrons, 189
- Posterior probability density function, 681
- Potential scattering, 594
- Powder cameras, 70
- Powder diffraction, 42, 664
 advantages of synchrotron, 54
 combined with Laue photography, 506
 electron techniques, 80
 methods, basic, 55
 neutron techniques, 82
 special factors in, 596
 standards, 498–499
 tilted-beam techniques, 80
- Powder diffraction data, Rietveld analysis of,
 710–712
- Powder diffractometry, mathematical theory
 of, 518
- Powder methods compared with single-crystal
 methods, 506
- Powder-pattern geometry, 80
- Powder-pattern indexing, 541
- Powder-pattern intensities, 80
- Powder patterns
 calculation of, 60
 computer graphics for, 69
- Powders, correction factor for, 657
- Poynting vector, 119
- Precautions against radiation injury,
 958–967
- Precession geometry, 35
 setting, 168
- Precision, 490, 492, 497, 501, 707
 of parameter estimates, 702

SUBJECT INDEX

- Precision of lattice-spacing determination, 505
 and profile shape, 517–519
 (methods of) increasing, 518, 533–534
 relative, 505
- Preferred orientation, 60, 80, 162, 712
 empirical correction factor, 61
 minimization of, 60
- Preparation
 of crystals, 153
 of specimens for electron diffraction and
 electron microscopy, 171
 of specimens for neutron diffraction, 177
- Pressure, effect on lattice parameters, study
 of, 508
- Primary dose limits, 960
- Primary extinction, 609, 610
- Primitive
 crystallographic basis, 2
 reciprocal basis, 2
 unit cell, 2
- Principle of causality, 246
- Prior probability density function, 681
- Probability density function, 681
- Probability distribution function (p.d.f.),
 707
- Profile fitting, 65, 492, 710
 computer procedures, 491
 functions, 66, 710
 in oscillation photographs, 510
- Profile parameters, 710
- Projected charge-density (PCD)
 approximation, 423
- Projection matrix, 705, 706
- Projection topograph, 115
- Prolate ellipsoid of revolution, 94
- Promolecule, 714
- Promolecule density, 714
- Propagation function, 415
- Proportional counters, 619
- Protection from ionizing radiation, 962–963
- Proteins
 label triangulation, 111
 restraints in refining, 699–701
- Proton-induced X-ray analysis (PIX), 189
- Pseudo-atom moments, 718
- Pseudo-non-dispersive methods, 506, 526,
 528–533
- Pseudo-Voigt function, 67, 711
- Pulse-amplitude discrimination, 73, 620
- Pulse-amplitude distributions, 621
- Pulse-height analyser, 622
- Pulse-height discrimination, 619
- Pulse-height distribution, 626
- Pulsed neutron source, 711
- Pulsed (spallation) neutron source, 87, 189,
 430–431
- Pycnometry, 158
- Pyroelectricity, 154
- Pyrolytic graphite, 43, 77, 438, 665
 cross section for neutrons, 439
- Pyrophyllite, 768
- Q - Q (quantile–quantile) plot, 707, 708
- QED corrections, 204, 205
- QR decomposition, 679
- Quadrupole, 716
- Quadrupole moment, 717
- Quality factor (QF), definition of, 959
- Quanta, 186
- Quantile–quantile plot, 707, 708
- Quantitative microanalysis, 410
- Quantum counting efficiency, 621
- Quantum efficiency, 624
- Quartz monochromator, 664
- Quartz twins, 11
- Quasi-Gaussian approximation, 590
- Quasi-Newton methods, 683
- Quasicrystals, 908
- R factors, 68, 710–711
 dynamical, 427
 weighted, 68
- Racah's algebra, 731
- Radial constraint, 715
- Radial distribution function, 97
- Radiation damage, 166, 417, 626, 630
- Radiation injury
 definition of terms, 958–960
 possible sources, 962–963
 precautions against, 958–967
 regulatory authorities, 964–966
 responsibilities, 960–961
- Radiation protection, 957, 962
- Radiation safety officer, 960
- Radiations used in crystallography
 electromagnetic waves, 186
 particles, 186, 259
- Radioactive samples, 619
- Radioactive sources, 189
- Radio-frequency flipping coil, 728
- Radionuclides, 75, 196
 definition of, 959
- Radiotoxicity, definition of, 959
- Radius of gyration, 91
 of the cross section, 92
 of the thickness, 92
- Radoslovich model, 769
- Raman effect, 153
- Raman scattering, 657, 660
 resonant, 657, 660, 661
- Raman spectroscopy, 189
- Ramsdell notation, 752
- Rank of a lattice, 937
- Rate-meter measurements, 63
- Ratio method
 for powder samples, 509
 for single crystals, 509
- Ratio of lattice spacing to optical wavelength,
 533
- Rational twin axis, 10
- Rayleigh criterion, 427
- Rayleigh scattering, 214, 242, 554, 599
- Rayleigh scattering data, theoretical, 221
- RBS (Rutherford backscattering), 189
- Reactors, 430
- Real crystals, 419
- Real solids, 401
- Real structure
 determination, 516, 531
 errors due to, 528
- Receiving slit, 45
 aperture, 53
 width, 48
- Reciprocal cell
 picture of, three-dimensional, 509
 picture of, two-dimensional, 509
 picture of, undeformed, 509
- Reciprocal lattice, 412
 angles, determination, 517
 geometry, 513
 layer lines and crystal setting, 168
 parameters, determination, 517
- Reciprocal lattice
 point, 415
 vector, 3
- Recording counts, fluctuations of, 492
- Recording range, 52
- Rectangular crystal system, 15
- Reducible point groups, 939
- Reference crystal(s), 531–532
- Reference sample in SANS, 109
- Refinement
 least-squares, 503, 505, 510, 517
 of structural parameters, 677
 problems, least-squares, 101
 Rietveld, 56, 82, 541
 Rietveld, using XED, 86
- Reflecting power of a crystal, 590
- Reflection
 angles, 499
 conditions, for a twinned crystal, 13
 conditions, special, 921
 of light, 153
- Reflection electron microscopy (REM), 428
- Reflection high-energy electron diffraction
 (RHEED), 428
- Reflection-only counting rates, 666
- Reflection specimen, θ - 2θ scan, 44, 53
- Reflection topographs, 113, 114
- Reflection twins, 10, 12
- Reflections
 integrated, 114
 main, 907
 multiple-order (Laue), 27
 nodal, 29
 satellite, 907
 single-order (Laue), 27
- Reflectivity function, 528
- Refraction, 527
 correction for, 492, 505, 523, 536
 effects, 81
- Refractive index, 81, 154, 160, 189, 599–600
 immersion media for measurement of, 160
- Regular polytypes, 762
- Regulatory authorities, 964
- Relative measurements of lattice spacing, 505
- Relative molecular mass in SANS, 110
- Relativistic corrections, 390
- Relativistic effects, 186, 260, 262
- REM (reflection electron microscopy), 428
- Remanent systematic error, testing for, 498
- Repeated twins, 10
- Residual, 707
- Residual map, 714
- Resolution
 in XED, 85
 sphere, 27
- Resolution errors
 detector element, 106
 gravity, 106
 in SANS, 106
 slit, 106
 wavelength, 106
- Resolution functions in neutron scattering,
 443
- Resonance scattering, 594
- Resonant Raman scattering, 657, 660, 661
- Restraints in refinement, 691, 693–701
- RHEED (reflection high-energy electron
 diffraction), 428
- Rho operations, 763
- Rhombohedral crystal system, 8
- Ribosomes, scattering curves from, 111

SUBJECT INDEX

- Rietveld method, 56, 82, 422, 493, 496, 541, 690, 710
background, 711
indexing, 711
peak-shape function, 710–711
preferred orientation, 712
problems with, 711
using XED, 86
- Rigid-motion parameters, 697
- Robust/resistant methods, 689
- Rock minerals, preparation of specimens, 171
- Rocking curves, 37, 39, 188, 662
double-crystal, 529
- Rod-like particles, 94
molecular weight, 93
radial inhomogeneity, 96
- Rod polytypes, 760, 766
- Rotating-anode tubes, 71, 189, 194
- Rotation diagrams, 414
- Rotation geometry setting with moving-crystal methods, 168
- Rotation method, 29
normal beam, 31
- Rotation of polarization, 593
- Rotation/oscillation geometry, 31
- Rotation twins, 10, 12
- Rotational oscillation (libration), 589
- Rutherford backscattering (RBS), 189
- Rutile, intensity standard, 503
- Sample mean, 813
- Sample median, 813
- Sample standard deviation, 813
- SANS (small-angle neutron scattering), 105, 110
- Satellite
peaks, 75
reflections, 907
- Saticon television camera tubes, 630
- SAXS (small-angle X-ray scattering), 89
- Sayre's equation, 428
- Scale factor, estimation of, 691
- Scanning-crystal monochromator, 622
- Scanning electron microscopy (SEM), 540
- Scanning range, 519–520
- Scanning transmission electron microscope (STEM), 427
- Scanning tunnelling microscope, 428
- Scattering
coherent multiple, 661
Compton, 242, 554, 599, 661
Delbrück, 242
diffuse, 261
elastic, 416
electron, 259
fluorescence, 661
inelastic, 416, 657
low- Q , 105
magnetic, 730
magnetic X-ray, 730
multiple, 661
multiple, deconvolution techniques, 393
multiple, incoherent, 661
multiple, intramolecular, 392
multiple, neutron diffraction, 177
multiple, Poisson distribution, 393
multiple, problems associated with, 392
neutrons, magnetic, 591
neutrons, nuclear, 593
nuclear and magnetic, 435
parasitic, 661
- Scattering
plasmon, 657, 661
potential, 594
Raman, 657
Rayleigh, 242, 554, 599
resonance, 594
resonant Raman, 657, 660, 661
spin-flip, 591
thermal diffuse, 416, 653, 655, 657, 661
Thomson, 733
- Scattering amplitudes, 389
for electrons, 263–281
nuclear, 594
- Scattering cross sections
coherent, 594
Compton, 213
elastic, 213
elastic differential, 262
incoherent, 594
incoherent elastic, 595
inelastic, 213
magnetic, 593
nuclear, 591
pair-production, 213
Rayleigh, 213
total, 213, 594
total (tables), 223–229
- Scattering factors
atomic, 554, 566
complex, 188, 262
electron, 188, 259
for electrons, molecular, 390
for electrons, partial wave (Table 4.3.3.1), 286–377
for neutral atoms, 263
free atoms, 555
generalized, 565
hydrogen-atom, 565
interpolation, 565
magnetic, 461
parameterization, 262, 461
X-ray, Gaussian fits, 261
X-ray incoherent, 389
- Scattering functions, 89
incoherent (Table 7.4.3.2), 658
- Scattering intensities
calculation of, 104
neutron, 105
- Scattering-length densities, 105
match-point, 107
- Scattering lengths, 444
bound nuclear, 594
coherent, 594
density, 105
density, match-point, 107
for neutrons, 188, 444
free, 594
total, 91
- Scattering surfaces, 656
- Scattering vector, 3, 90
- Scherzer focus, 422, 423, 424, 426
- Schrödinger wave equation, 186, 415, 735
- Scintillation detectors, 619, 642, 664
- Screen menu (CRT) for diffractometer-operation control, 64
- Screenless rotation technique for large-molecule data collection, 169
- Screw correlation tensor, 697
- Secant methods, 683
- Secondary extinction, 609, 611
- Section topograph, 115
- Seemann–Bohlin diffractometers, 495
- Seemann–Bohlin geometry, 43
- Seemann–Bohlin method, 52
advantages, 53
- Selected-area channelling patterns, 540
- Selected-area diffraction patterns, 428
- Selected-area electron diffraction, 80, 538
- Selection of crystals, 151
- Self-centring slit, 45
- Self-consistent field (Hartree–Fock) method, 243
- SEM (scanning electron microscopy), 540
- Semiconductor crystals, 428
- Semiconductor detectors, 629, 642
- Sensitivity (of lattice-spacing determination)
increasing, 505
(methods of) highest, 531
- Separation plots, structural, 774
- Serial recording, 639
- Serpentine-kaolin group, 766–769
- Setting
 θ - 2θ , 47
anti-equi-inclination, 31
azimuthal, 168
equi-inclination, 31
flat cone, 31
Guinier, 39
photograph (precession), 35
precession geometry, 168
rotation geometry, 168
stationary crystal, 168
- Setting angles in standard diffractometers, 516
- Shadowing, 189
- Shannon–Jaynes entropy, 691
- Shape function, 520, 523
- Shape of profile
affected by collimation, 520
and precision, 519–521
- Shape transform, 718
- Sheets
dioctahedral, 767
hetero-octahedral, 767
homo-octahedral, 767
meso-octahedral, 767
octahedral, 767
tetrahedral, 768
trioctahedral, 767
- Short symbols for superspace groups, 921
- Siegbahn notation, 191
- Sievert, definition of, 959
- Sigma symmetry (operations), 763
- Signal-to-noise ratio, 633, 645
- Significance tests, 702
- Silicates (phyllosilicates), 766–771
- Silicon, lattice parameter of, 490, 495, 499
- Silver, lattice parameter of, 499
- Silver behenate reflection angles, 503
- Simple polytypes, 762
- Simulations in SAXS, 103
- Simultaneous reflection, 526
- Single crystal
characterization, 525
Laue diffraction, neutron, 87
monochromators (at synchrotron), 39
topography, 114
XED methods, 87
- Single-crystal methods
compared with powder methods, 506
photographic, 508–516
with counter recording, 516–533

SUBJECT INDEX

- Single-crystal X-ray techniques, 26, 505–536
 classification of, 25
- Single filters, 78
- Single-order reflections (Laue), 27
- Single-particle scattering, 110
- Single-wire detectors, 82
- Skewness, 586
- Slater determinant, 722
- Slater-type orbitals, 584
- Slits
 antiscatter, 45
 design, 45
 self-centring, 45
- Slower-than-sound neutrons, 657
- Small-angle approximation, 80
- Small-angle cameras, 99
- Small-angle neutron scattering (SANS), 105, 110
- Small-angle X-ray scattering (SAXS), 89
- Small angles of incidence, 525
- Small particles
 essential, 56
 line broadening from, 62
- Small spherical crystals, lattice-parameter determination of, 507, 525
- Solid-state detectors, 82, 620, 642, 664
- Solid-state effects, 400
- Solid-state valence-band theory, 415
- Soller collimators, 82, 432, 443
- Soller slits, 46, 56, 82, 494, 521–522
- Solutions, diffraction from, 24
- Somatic effects, 960
- Sound velocity, 656
- Source intensity distribution and size, 73
- Sources of X-radiation, 507
- Space-group frequencies
 statistical modelling of, 897–906
 tables, 905
- Space groups
 and arithmetic crystal class, 15–20
 arranged by arithmetic crystal class, 16
 classification of, 15, 897
 closest-packed, 897
 distribution of molecular organic structures, 897
 enantiomorphous pairs, 20
 for close-packed structures, 755
 frequency of, 15
 impossible, 897
 limitingly close-packed, 897
 magnetic, 591
 one-line symbol, 920
 permissible, 897
 symmetry, 695
 two-line symbol, 921
- Spallation neutron sources, 87, 189, 430–431
- Spark erosion, 174
- Sparse matrices, 685
- Sparse matrix methods, 701
- Spatial distortions, 41, 625, 633
- Spatial non-uniformity, 633
- Special reflection conditions, 921
 for (3+1)-dimensional space groups, 934
- Specific heat, 154
- Specific isotopic labelling, 107
- Specific surface, 93
- Specimen
 aberrations, 48
 absorption, 497, 498
 displacement, 494, 498, 499
 displacement error, correction, 528
- Specimen
 factors, 60
 fluorescence, 43, 78
 focusing circle, 44
 irradiated length, 45
 mounting, 162
 orientation, 44
 preparation, 171, 177, 503
 surface displacement, 48, 499, 503
 transparency, 494, 497, 499
 transparency aberration, 50
- Specimen-tilt and beam-tilt error correction, 524
- Spectral breadth, 189
- Spectral brightness, 197
- Spectral profiles, 48
- Spectral purity, 72
- Spectrometers, 395
 asymmetric, 521–522
 combined (techniques), 531
 double-beam, 531
 double-crystal, 510, 528–530
 one-crystal, 521–526
 stability of, 532
 symmetric, 521–526, 529–531
 time-of-flight, 444
 triple-axis, 444, 531–532
 triple-crystal, 531–532
- Spectroscopy
 electron energy-loss, 391
 infrared, 189
 Raman, 189
- Sphalerite, 754
- Sphere(s), 92, 94
 close-packing, 746, 752, 761
 hollow, 92
 of reflection (Laue sphere), 26
 packing, 747
- Spherical aberration, 421
- Spherical Bessel function, 460, 565, 592
- Spherical harmonic approximation, atom-centred, 714
- Spherical harmonic functions, 581, 714, 722
- Spherical harmonic multipole model, 715
- Spherical symmetry, 103
- Spherically symmetric particles, 96
- Spin
 flipper, 442
 of neutrons, 443
 polarization, 388
- Spin-contrast variation, 108
- Spin density
 analysis of, 713–734
 errors, 729
- Spin-flip processes, 728
- Spin-flip scattering, 591
- Spin-magnetization densities, 725, 727, 731
- Spin-orbit coupling, 727
- Spin-orientation devices, 442
- Spin-polarization effect, 732
- Spin structure factor, 731
- Spin-turn coil (flipper), 442
- Split basis, 944
- Spot size and shape, 37, 39
- Sputter etching, 173
- Sputtered thin films, 173
- Square crystal system, 15
- Square-root technique, convolution, 103
- Square-wave modulation transfer function, 634
- Stability of spectrometers, 532
- Stability of X-ray sources, 72
- Stable packing, 746, 750
- Stacking faults, 754, 762
 fringe patterns, 116
- Stacking sequence, determination of, 757
- Standard basis, 944
- Standard crystal, 507, 531–532
 lattice-parameter determination of, 507
- Standard deviation, 679
- Standard lattice bases, 938
- Standard polytypes, 762
- Standard reference materials, 498
- Standard specimens, 501
- Standard uncertainty, 681, 707
- Standards
 intensity, 500
 powder-diffraction, 498–499
- Static model map, 714
- Stationary-crystal method, 168
- Stationary-phase focus, 422
- Statistical errors of lattice-parameter determination, 505, 519, 523
- Statistical fluctuations, 69, 492, 666
- Statistical modelling, 904
- Statistical significance tests, 702–705
- Statistical validity
 in general, 702–705
 of Rietveld method, 712
- Statistics, 679
 of recorded counts, 519
 Poisson, 519
- STEM (scanning transmission electron microscope), 427
- Step size and count time, 64
- Stereochemical constraints, 698
- Stereographic projection of Kossel pattern, 513
- Stereographic transformation, 29
- Stibivanite, 769–772
- Still exposure, monochromatic, 31
- Still photographs for initial crystal setting, 169
- Stochastic effects, 959
- Stopping rules, 684
- Storage phosphors, 623, 635
- Storage rings, 196
 synchrotron-radiation sources, 199
- Strain, measurement of, 510, 516, 529
- Strainmeter, 510
- Straumanis film mounting, 509
- Stress
 internal, 528
 study of, 510, 516, 522
- Strip-chart recordings, 63
- Stroboscopic X-ray topography, 120
- Structural classes, 904
- Structural separation plots, 774
- Structure amplitude, complex, 261
- Structure analysis
 direct, 103
 electron diffraction, 413
- Structure determination of close-packed stackings, 756–758
- Structure factor(s), 590, 941
 determination, 735
 magnetic, 725, 728, 730
 magnetic orbital, 731
 magnetic, unit-cell, 591
 magnetic X-ray, 733
 measurement by electron diffraction, 416
 nuclear, 595, 725, 730
 partial, 112
 SANS, 112

SUBJECT INDEX

- Structure factor(s)
 spin, 731
 X-ray, 737
- Structure imaging, electron diffraction, 424
- Structure prediction, 897
- Structure refinement, 426
- Student's *t* distribution, 704
- Subfamilies, 769
- Sub-grains, 114
- Sublimed films, 176
- Sulfur, Fermi level, 406
- Superficial layers (see also Epitaxial layers),
 study of, 525
- Superlattices, determination of, 525
- Supermirrors, 435
- Superposition structure, 763
- Superspace, 944
 embedding, 908
- Superspace groups, 909, 912, 916, 940, 945
 (2+1)-dimensional (table), 920
 (2+2)-dimensional (table), 921
 (3+1)-dimensional (table), 922–934
 equivalent, 940
 full symbols, 921
 short symbols, 921
 symbols for, 921
- Superstructure, 919
- Surface diffraction, 24
- Surface of a particle, 93
- Surface plasmons, 403
- Surface-roughness scattering, 108, 128
- Surface structure, 428
- Symmetric arrangement in single-crystal
 methods, 509, 521–526, 529–531
- Symmetry
 conditions for second cumulant tensors,
 695–696
 elements, non-crystallographic, 907
 enhanced, 13
 group, 908
 of Patterson synthesis, 21
 spherical, 103
- Symmetry, 15, 897
- Synchrotron radiation, 54, 99, 114, 119, 187,
 191, 596, 623, 653, 665, 711
 camera systems for, 100
 determination of wavelength, 495
 facilities (for EXAFS), 219
 for XED, 84
 sources, 38, 198, 495
 special applications, 189
 spectrum, 197
- Synchrotron X-ray topography, 120
- Systematic errors (see also Aberrations), 490,
 492, 501, 653–665, 707
 background, 661–665
 connected with collimation, 523–524
 detection and treatment, 498–499, 707–709
 estimation of, 535
 in counter-diffractometer methods, 518,
 535
 in divergent-beam methods, 515
 in photographic methods, 508, 515, 535
 in single-crystal spectrometers, 521, 522,
 523
 in the Bond method, 523–525
 of wavelength determination, 535
 plasmon scattering, 660
 Raman scattering, 660–661
 reduced experimentally, 512, 515, 521, 526,
 528–530
- Systematic errors (see also Aberrations)
 reduced by detailed analysis of Kossel
 patterns, 512–515
 reduced by extrapolation, 505, 535
 reduced by least-squares refinement, 517
 remanent, 408
 specimen displacement, 517, 531
 testing for, 498–499
 thermal diffuse scattering, 653–657
 white radiation, 661–665
- Systematic interactions, 81
- Take-off angle, 74
- Talc-pyrophyllite group, 768–770
- Tangent formula, 428
- Tau operations, 764
- Television area detectors, 630
- Television camera tubes, 632
- TEM (transmission electron microscopy), 171,
 428, 540
- Temperature correction, 524
- Temperature dependence of lattice parameters,
 study of, 507, 530
- Temperature factor(s), 586
 anisotropic, 697
 generalized, 586
 librational, 724
- Tensors, symmetry of, 695–696
- Tetragonal crystal system, 7, 17
- Tetrahedral sheet, 767
- Texture
 axis, 412
 basis, 412
 fibre, 413
 lamellar, 412
 patterns, 412
- Theoretical photo-effect data, 221
- Theoretical Rayleigh scattering data, 221
- Thermal diffuse scattering, 415, 653, 656,
 661, 711
 correction, anisotropic, 655
 correction factor, 654
 correction factor for thermal neutrons, 656
 error, 653
- Thermal effects, error connected with, 515
- Thermal expansion, 154
 study of, 510, 516, 522, 525, 529
- Thermal neutron detection, 644–652
 detection process, 644–648
 detection systems, 649–651
 electronic aspects, 648
via gas ionization, 645
via scintillation, 645
- Thermal smearing, 723
- Thermodynamic properties, 154
- Thickness
 distance distribution function of, 103
 fringes, 735
 of crystal (sample), 512, 513
 of lamellar particles, 93
- Thin films and thinning, 173
- Thin sections, 171, 174
- Thinning solution, 175
- Thomas-Fermi method, 659
- Thomas-Fermi model, 243
- Thomson formula, 90
- Thomson scattering, 733
 by a free electron, 242
- Three-axis spectrometers, 444
- Three-beam fringes, 422
- Three-dimensional crystal classes, 15–20
- Tilt(s)
 of beam, 524
 of crystals, 530
- Tilt-series reconstruction method, 427
- Time-averaged flux, 431
- Time-constant errors, 492
- Time-of-flight neutron diffraction, 87, 431
- Time-of-flight SANS, 106
- Time-of-flight spectrometers, 444
- Time reversal, 591
- Topography, 113–123, 516, 525–527
 detectors suitable for, 634
- Topotaxy, 154
- Total coincidence operations, 761
- Total counting rates, 666
- Total external reflection, 525
- Total scattering cross section, 594
- Total scattering lengths, 91
- Townsend avalanches, 619
- Trace of *S* singularity, 697
- Transformation(s)
 compensating, 940
 gnomonic, 29
 stereographic, 29
 twins, 10
- Transition elements, Fermi level, 406
- Transition-radiation X-rays, 192
- Translation, internal, 912
- Translation tensor, 697
- Translations, compensating, 940
- Transmission coefficients, 601
- Transmission electron microscopy (TEM),
 428, 540
 preparation of specimens, 171
- Transmission factor for XED, 86
- Transmission function, 414, 432
- Transmission geometry, 512, 513, 525
 crystal thickness for, 512, 513
- Transmission method, advantage of, 52
- Transmission specimen, θ - 2θ scan, 49
- Transmission topographs, 113, 114, 124
- Transparency aberration, 49
- Traverse topograph, 115
- Triaxial bodies, homogeneous, 92
- Triclinic crystal system, 6
- Tricontadipole, 716
- Trigonal crystal system, 7, 18
- Trigonometric intensity factors, 596
- Trimercury dichloride disulfide, 766,
 771–772
- Trioctahedral sheet, 767
- Triple-axis spectrometers, 444, 531–532
- Triple-crystal spectrometers, 531–532
- Triple isotopic replacement, 111
- Triple-reflection scheme, 532
- Truncation level, 518
 optimum, 520
- Trust-region methods, 683
- Tungsten
 lattice parameter of, 499
 reflection angles, 499, 502
- Turbostratic structures, 760
- TV cameras, X-ray-sensitive, 633
- Twin(s)
 axis, 10, 11
 axis, rational, 10
 boundary, 10
 Brazil, 11
 centre, 10
 centred lattice, 11
 components, 10

SUBJECT INDEX

- Twin(s)
 cyclic, 10
 Dauphiné, 11
 element, 10, 14
 growth, 10
 index, 11
 interface, 10
 inversion, 10, 12
 lattices, 10
 law, 10
 mechanical (deformation, glide), 10
 mimetic, 153
 multiple, 10
 operation, 10
 plane, 10, 11
 polysynthetic, 10
 primitive lattice, 11
 quartz, 11
 reflection, 10, 12
 repeated, 10
 rotation, 10, 12
 simulated Laue class of, 13
 transformation, 10
- Twinned crystal, reflection conditions, 13
- Twining, 10
 by merohedry, 12
 by pseudomerohedry, 12
 in polytypes, 762
 reciprocal-space implications, 12
- Two-beam approximation, 80, 260
- Two-circle diffractometers, 517
 matrix formulae, 517
- Two-dimensional crystal classes, 15, 16
- Two-line symbols for Bravais classes, 915, 920
- Ultramicrotomy, 171
- Ultraviolet radiation, 187, 189
- Umweganregung*, 527
- Undulators, 197
- Uniformity of response, 625
- Unit cell
 conventional, 913
 conventional or centred, 2
 magnetic structure factor, 591
 primitive, 2
 volume, 2
- Unsmoothed high-tension supplies, 667
- Upper-layer photographs (precession), 35
- Upper-layer photographs (Weissenberg), 35
- Upper quartile, 813
- V-shaped detector recording, 32
- Valence map, $X - X$, $X - N$, and $X - (X+N)$, 714
- Vanadium, scattering from, 594
- Variable reduction method, 693
- Variance, 679
 of centroid, 520
 of measure of location, 519
 of median, 520
 of peak, 520
 of single midpoint of chord, 520
- Variance-covariance matrices, 680, 692, 707
- Variances of measured intensities (recorded counts), 519
- Variations in cell parameters, 522
- VC (vicinity condition), 763
- VC layers, 765
- VC structures, 765
- Vector(s)
 basis, 944
 energy-flow, 119
 lattice, 2
 module, 907, 937, 944
 Poynting, 119
 reciprocal-lattice, 3
 scattering, 3
 Velocity of sound, 656
 Velocity of the elastic wave, 654
- Vermiculites, 765
- Vertical divergence, 82
- Vertical inclination
 correction for, 522
 of incident beam, 522
 of reflected beam, 522
- Vibrating-string method for density measurement, 158
- Vibration, normal modes, 653
- Vicinity condition (VC), 763
- Viruses, SANS, 106, 111
- Visual estimation, 618
- Voids in close-packed structures, 753
- Voigt function, 67, 711
- Volume
 of a homogeneous particle, 92
 plasmons, 398
- Volumenometry, 158
- Voronoi polyhedron, 774
- Waller-Hartree method, 659
- Wave amplitudes, dynamical, 414
- Wavefunction, 186
- Wavelength calibration, 55
- Wavelength determination, 506, 528, 533
 accuracy of, 526
 errors in, 541
- Wavelength filter, 528
- Wavelength normalization (Laue), 39
- Wavelength problems, 492
- Wavelength selection, 75
 easy, 55
- Wavelength shifts, 197
- Wavelengths
 γ -rays, 187
 determination, 533
 distribution, 506
 errors, 492
 synchrotron radiation, 187
 uncertainty, 536
- X-rays, 187, 191, 200, 201, 206, 209
- Wavevector, 186
- Weak-peak measurement, 65
- Weak-phase-object (WPO) approximation, 423, 427
- Weighted R factors, 68
- Weissenberg camera, setting of single crystals, 168
- Weissenberg diffractometer, 517
- Weissenberg geometry, 34
- White-beam energy-dispersive X-ray diffraction, 622
- White-beam neutron diffraction, 87, 124
- White radiation, 661
 in double-crystal spectrometer, 529
 in lattice-parameter determination, 507, 508, 529
 streaks and crystal setting, 169
 topography, 119
- Whole-powder-pattern fitting, 68
- Wien filter, 396
- Wigglers, 197
- Wigner-Eckart theorem, 727
- Window thinning method, 174
- WPO (weak-phase-object) approximation, 423, 427
- Wurtzite, 754
- Wyckoff positions, 914
- XAFS (extended X-ray absorption fine structure), 24, 189, 213-220, 254, 409
 as a short-range-order phenomenon, 214
 data analysis, 217
- XANES (X-ray absorption near-edge structure), 214-220, 258, 403
- XED (X-ray energy-dispersive diffraction), 84
- XPS (X-ray photoemission spectroscopy), 189
- X-ray absorption, 599-612
- X-ray absorption coefficients, 220
 absolute measurement of, 214
 data analysis of EXAFS, 217-218
 experimental techniques, 214
- X-ray absorption near-edge structure (XANES), 214-220, 258, 401
- X-ray absorption spectra, 213-241
- X-ray attenuation coefficients, 220
- X-ray background over a spot, 34
- X-ray beam
 extremely parallel, 532
 highly divergent, 507, 508, 510-516
 in single-crystal techniques, 507
 well collimated, 507, 508, 536
- X-ray diffraction
 detectors for, 618-638
 texture patterns, 412
- X-ray dispersion corrections, 241
- X-ray energies, 236
- X-ray energy-dispersive diffraction (XED), 84
- X-ray generators, 72
- X-ray imaging systems, 633
- X-ray incoherent scattering factors, 389
- X-ray interferometry, 201
 combined with optical interferometry, 533-534
- X-ray levels, 191
- X-ray microanalysis, 82
- X-ray microscopy, 189
- X-ray optics, 37
- X-ray phosphors, 631
- X-ray photoemission spectroscopy (XPS), 189
- X-ray powder techniques, 42-79, 492-503
 aberrations in, 47-50
 energy-dispersive, 58
 filters, 78-79
 focusing geometries, 43
 history, 42-43
 literature, 42-43
 microdiffractometry, 53-54
 monochromators in, 43, 76-78
 parallel-beam geometries, 54
 Seemann-Bohlin geometry, 43, 52-53
 Soller slits in, 50, 56
 specimen fluorescence in, 43
 zero position, 46
- X-ray scattering, 554-590
 magnetic, 733
- X-ray-sensitive TV cameras, 633
- X-ray source(s), 191
 conventional, 37
 in the sample, 510
 laser plasma, 189

SUBJECT INDEX

- X-ray source(s)
 - on the sample, 510
 - outside the sample, 510
 - radioactive, 195
 - synchrotron, 38, 196
 - X-ray tube, 193
- X-ray spectra, 71, 74
 - Bremsstrahlung*, 191
- X-ray spectrometers
 - Bragg, 510
 - double-crystal, 528
 - symmetric, 510, 521, 529
 - triple-crystal, 530
- X-ray techniques, single-crystal, 26
- X-ray topography, 115, 516, 525–527
- X-ray tubes, 71–74, 193
 - loading, 195
 - power dissipation in, 195
- X-ray wavelengths, 187, 191, 200–212, 221
 - conversion factors, 191
 - in single-crystal methods, 506
- X-rays
 - hard, 187
 - properties, 187
 - soft, 187
 - special applications, 189
- Z-module, 907
- Zebra patterns, 119
- Zeeman polarizers, 442
- Zero-angle calibration, 494
- Zero-error elimination, 517, 521, 523, 529
- Zero-layer photographs (precession), 35
- Zero-layer photographs (Weissenberg), 34
- Zero line, 415
- Zero-order Laue zone (ZOLZ), 418
- Zero plane, 415
- Zero-point correction, 517
- Zero setting, 528
- Zhdanov notation, 752
- Zinc oxide (intensity standard), 503
- Zinc sulfide, 754
- ZOLZ (zero-order Laue zone), 418
- Zone axis, 3, 10
- Zone equation, 4