Table 6.3.3.2. *Values of A^* for cylinders*

μR	$\theta = 0°$	$\theta = 5°$	$\theta = 10°$	$\theta = 15°$	$\theta = 20°$	$\theta = 25°$	$\theta = 30°$	$\theta = 35°$	$\theta = 40°$	$\theta = 45°$	$\theta = 50°$	$\theta = 55°$	$\theta = 60°$	$\theta = 65°$	$\theta = 70°$	$\theta = 75°$	$\theta = 80°$	$\theta = 85°$	$\theta = 90°$
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.1	1.1843	1.1843	1.1842	1.1840	1.1838	1.1835	1.1832	1.1828	1.1823	1.1818	1.1813	1.1808	1.1802	1.1798	1.1793	1.1790	1.1787	1.1785	1.1785
0.2	1.4009	1.4007	1.4002	1.3995	1.3984	1.3970	1.3953	1.3934	1.3912	1.3889	1.3865	1.3841	1.3818	1.3796	1.3777	1.3761	1.3749	1.3741	1.3739
0.3	1.6548	1.6544	1.6531	1.6510	1.6481	1.6443	1.6398	1.6347	1.6290	1.6230	1.6169	1.6108	1.6049	1.5994	1.5946	1.5906	1.5876	1.5857	1.5851
0.4	1.9522	1.9513	1.9485	1.9439	1.9376	1.9296	1.9201	1.9094	1.8979	1.8857	1.8733	1.8611	1.8495	1.8388	1.8293	1.8215	1.8157	1.8121	1.8108
0.5	2.2996	2.2979	2.2926	2.2840	2.2721	2.2572	2.2398	2.2204	2.1996	2.1781	2.1564	2.1352	2.1152	2.0969	2.0809	2.0677	2.0579	2.0518	2.0497
0.6	2.7047	2.7017	2.6926	2.6775	2.6570	2.6317	2.6023	2.5701	2.5359	2.5010	2.4662	2.4327	2.4012	2.3728	2.3480	2.3277	2.3126	2.3033	2.3001
0.7	3.1762	3.1712	3.1561	3.1315	3.0982	3.0575	3.0111	2.9607	2.9081	2.8549	2.8028	2.7530	2.7068	2.6653	2.6295	2.6003	2.5786	2.5651	2.5606
0.8	3.7236	3.7157	3.6919	3.6532	3.6015	3.5392	3.4691	3.3941	3.3169	3.2400	3.1656	3.0953	3.0307	2.9732	2.9239	2.8839	2.8542	2.8359	2.8297
0.9	4.3578	4.3456	4.3093	4.2507	4.1733	4.0812	3.9792	3.8718	3.7629	3.6560	3.5538	3.4584	3.3717	3.2951	3.2299	3.1772	3.1383	3.1142	3.1061
1.0	5.0907	5.0724	5.0185	4.9323	4.8196	4.6877	4.5439	4.3948	4.2461	4.1022	3.9664	3.8413	3.7286	3.6298	3.5462	3.4790	3.4295	3.3990	3.3886
1.1	5.9356	5.9089	5.8305	5.7065	5.5466	5.3624	5.1649	4.9636	4.7660	4.5776	4.4022	4.2424	4.0998	3.9759	3.8717	3.7882	3.7269	3.6891	3.6763
1.2	6.907	6.869	6.757	6.582	6.360	6.109	5.8436	5.5782	5.3219	5.0811	4.8598	4.6604	4.4842	4.3322	4.2051	4.1038	4.0295	3.9838	3.9682
1.3	8.021	7.967	7.810	7.568	7.266	6.929	6.581	6.238	5.9125	5.6110	5.3376	5.0938	4.8805	4.6976	4.5456	4.4248	4.3365	4.2821	4.2636
1.4	9.294	9.219	9.003	8.674	8.268	7.826	7.376	6.942	6.536	6.166	5.8341	5.5413	5.2873	5.0711	4.8922	4.7506	4.6471	4.5835	4.5619
1.5	10.746	10.643	10.349	9.907	9.372	8.800	8.230	7.689	7.192	6.744	6.348	6.002	5.7036	5.4516	5.2441	5.0804	4.9609	4.8875	4.8625
1.6	12.397	12.257	11.862	11.276	10.581	9.852	9.141	8.477	7.877	7.344	6.877	6.473	6.128	5.8385	5.6007	5.4136	5.2773	5.1935	5.1650
1.7	14.267	14.080	13.555	12.788	11.897	10.982	10.106	9.304	8.589	7.963	7.420	6.955	6.561	6.231	5.961	5.7499	5.5960	5.5014	5.4691
1.8	16.379	16.131	15.441	14.450	13.323	12.189	11.125	10.168	9.327	8.600	7.976	7.446	7.000	6.628	6.326	6.089	5.9166	5.8107	5.7746
1.9	18.76	18.43	17.53	16.267	14.858	13.470	12.194	11.066	10.089	9.253	8.544	7.946	7.444	7.030	6.693	6.430	6.239	6.121	6.081
2.0	21.43	21.00	19.84	18.24	16.50	14.824	13.311	11.995	10.871	9.921	9.122	8.452	7.895	7.435	7.063	6.773	6.562	6.433	6.389
2.1	24.41	23.87	22.39	20.38	18.25	16.247	14.472	12.953	11.673	10.602	9.709	8.965	8.349	7.843	7.436	7.118	6.887	6.745	6.697
2.2	27.74	27.04	25.17	22.69	20.11	17.74	15.675	13.938	12.493	11.295	10.304	9.484	8.808	8.255	7.810	7.464	7.213	7.059	7.006
2.3	31.44	30.55	28.20	25.16	22.07	19.29	16.92	14.947	13.328	11.999	10.906	10.008	9.271	8.669	8.187	7.812	7.540	7.372	7.315
2.4	35.54	34.41	31.49	27.79	24.13	20.90	18.19	15.978	14.177	12.711	11.515	10.537	9.736	9.086	8.565	8.161	7.868	7.687	7.625
2.5	40.06	38.65	35.05	30.59	26.28	22.56	19.50	17.03	15.040	13.433	12.130	11.069	10.205	9.505	8.945	8.511	8.196	8.002	7.935

Table 6.3.3.3. *Values of A^* for spheres*

μR	$\theta = 0°$	$\theta = 5°$	$\theta = 10°$	$\theta = 15°$	$\theta = 20°$	$\theta = 25°$	$\theta = 30°$	$\theta = 35°$	$\theta = 40°$	$\theta = 45°$	$\theta = 50°$	$\theta = 55°$	$\theta = 60°$	$\theta = 65°$	$\theta = 70°$	$\theta = 75°$	$\theta = 80°$	$\theta = 85°$	$\theta = 90°$
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.1	1.1609	1.1609	1.1609	1.1607	1.1606	1.1603	1.1600	1.1597	1.1593	1.1589	1.1586	1.1582	1.1579	1.1575	1.1572	1.1570	1.1568	1.1567	1.1567
0.2	1.3457	1.3456	1.3452	1.3447	1.3439	1.3428	1.3415	1.3400	1.3383	1.3366	1.3348	1.3331	1.3313	1.3297	1.3282	1.3271	1.3262	1.3256	1.3254
0.3	1.5574	1.5571	1.5561	1.5546	1.5525	1.5497	1.5463	1.5426	1.5383	1.5339	1.5293	1.5248	1.5204	1.5162	1.5126	1.5096	1.5074	1.5059	1.5055
0.4	1.7994	1.7988	1.7968	1.7935	1.7891	1.7833	1.7765	1.7689	1.7604	1.7515	1.7425	1.7335	1.7249	1.7169	1.7099	1.7041	1.6997	1.6970	1.6961
0.5	2.0755	2.0743	2.0706	2.0647	2.0565	2.0462	2.0340	2.0204	2.0056	1.9901	1.9745	1.9592	1.9445	1.9311	1.9194	1.9097	1.9024	1.8979	1.8964
0.6	2.3897	2.3877	2.3816	2.3715	2.3578	2.3406	2.3206	2.2984	2.2746	2.2500	2.2255	2.2015	2.1789	2.1583	2.1403	2.1257	2.1145	2.1076	2.1063
0.7	2.7467	2.7434	2.7336	2.7177	2.6959	2.6691	2.6382	2.6042	2.5683	2.5316	2.4952	2.4602	2.4274	2.3977	2.3719	2.3508	2.3351	2.3253	2.3220
0.8	3.1511	3.1461	3.1312	3.1069	3.0740	3.0339	2.9882	2.9386	2.8869	2.8347	2.7835	2.7346	2.6892	2.6484	2.6133	2.5845	2.5632	2.5499	2.5454
0.9	3.6082	3.6009	3.5789	3.5431	3.4952	3.4374	3.3723	3.3026	3.2308	3.1592	3.0898	3.0241	2.9637	2.9098	2.8634	2.8258	2.7979	2.7805	2.7747
1.0	4.1237	4.1131	4.0815	4.0304	3.9625	3.8816	3.7917	3.6966	3.6001	3.5048	3.4135	3.3280	3.2499	3.1807	3.1216	3.0738	3.0383	3.0163	3.0090
1.1	4.7035	4.6886	4.6442	4.5729	4.4790	4.3686	4.2474	4.1211	3.9945	3.8710	3.7540	3.6455	3.5470	3.4605	3.3870	3.3276	3.2838	3.2566	3.2474
1.2	5.3542	5.3335	5.2722	5.1747	5.0476	4.9001	4.7404	4.5761	4.4137	4.2571	4.1104	3.9756	3.8542	3.7483	3.6586	3.5866	3.5334	3.5005	3.4894
1.3	6.082	6.054	5.9710	5.8399	5.6710	5.4776	5.2711	5.0617	4.8573	4.6625	4.4819	4.3175	4.1706	4.0432	3.9360	3.8500	3.7868	3.7477	3.7344
1.4	6.895	6.857	6.746	6.573	6.352	6.102	5.8400	5.5774	5.3244	5.0862	4.8676	4.6703	4.4955	4.3447	4.2183	4.1174	4.0432	3.9974	3.9819
1.5	7.801	7.750	7.604	7.377	7.092	6.775	6.447	6.123	5.8143	5.5273	5.2666	5.0333	4.8281	4.6520	4.5052	4.3883	4.3024	4.2495	4.2315
1.6	8.806	8.740	8.549	8.256	7.894	7.497	7.092	6.697	6.326	5.9849	5.6780	5.4057	5.1678	4.9647	4.7961	4.6622	4.5641	4.5036	4.4830
1.7	9.920	9.834	9.587	9.214	8.759	8.268	7.774	7.299	6.859	6.458	6.101	5.7867	5.5140	5.2823	5.0907	4.9390	4.8279	4.7595	4.7361
1.8	11.151	11.040	10.725	10.254	9.689	9.088	8.492	7.928	7.411	6.946	6.535	6.176	5.8662	5.6045	5.3888	5.2184	5.0936	5.0170	4.9908
1.9	12.507	12.366	11.967	11.380	10.685	9.957	9.246	8.583	7.982	7.447	6.978	6.572	6.224	5.9308	5.6900	5.5001	5.3613	5.2760	5.2468
2.0	13.998	13.819	13.320	12.593	11.746	10.873	10.034	9.262	8.570	7.961	7.431	6.975	6.587	6.261	5.9942	5.7842	5.6307	5.5365	5.5041
2.1	15.632	15.408	14.788	13.895	12.874	11.837	10.855	9.964	9.175	8.486	7.893	7.385	6.955	6.595	6.301	6.070	5.9017	5.7982	5.7627
2.2	17.419	17.141	16.376	15.290	14.067	12.847	11.708	10.688	9.795	9.023	8.362	7.800	7.327	6.932	6.610	6.358	6.174	6.061	6.022
2.3	19.369	19.025	18.089	16.778	15.327	13.902	12.592	11.433	10.429	9.569	8.839	8.220	7.702	7.272	6.922	6.648	6.448	6.325	6.282
2.4	21.489	21.069	19.931	18.361	16.652	15.000	13.504	12.198	11.077	10.125	9.322	8.645	8.081	7.614	7.235	6.938	6.722	6.589	6.543
2.5	23.791	23.280	21.907	20.040	18.041	16.142	14.445	12.982	11.738	10.690	9.810	9.074	8.462	7.957	7.548	7.229	6.996	6.853	6.803

Copyright © 2006 International Union of Crystallography