5.1. Symbols used in Parts 5 and 6

$\mathcal{G}$	Scanned space group
P	Origin of the coordinate system of the scanned space group $\mathcal{G}$
$\mathbf{a}, \mathbf{b}, \mathbf{c}$	Conventional basis vectors of the scanned space group $\mathcal{G}$
$(P; \mathbf{a}, \mathbf{b}, \mathbf{c})$	Conventional coordinate system of the scanned space group $\mathcal{G}$
(hkl)	Miller indices of a section plane
$(hkil)$	Bravais–Miller indices of a section plane
$(mn0)$	Miller indices for special orientations with variable parameter
$V(\mathbf{a}', \mathbf{b}')$	Orientation of planes defined by Miller or Miller–Bravais indices
$\mathcal{H}(\mathcal{G}, (hkl)) = \mathcal{H}(\mathcal{G}, V(\mathbf{a}', \mathbf{b}'))$	Scanning group for the scanned group $\mathcal{G}$ and orientation $V(\mathbf{a}', \mathbf{b}')$ defined by Miller indices (hkl)
$\mathcal{H}$	Shorthand notation for the scanning group
$\mathbf{a}', \mathbf{b}', \mathbf{d}$	Conventional basis vectors of the scanning group
$\mathbf{a}', \mathbf{b}'$	Conventional basis vectors of the sectional layer groups for a given orientation of the section plane
$\mathbf{d}$	Basis vector of the scanning group in the scanning direction
$\widehat{\mathbf{a}}, \widehat{\mathbf{b}}, \widehat{\mathbf{c}}$	Auxiliary basis of a monoclinic scanning group
s	Distance of a section plane from the origin P in units of $\mathbf{d}$
$P + s\mathbf{d}$	Location of the section plane along the scanning line
$\mathcal{L}(P + s\mathbf{d}; (hkl))$	Sectional layer group of a plane with orientation (hkl) passing through the point $P + s\mathbf{d}$
$\mathcal{L}(s\mathbf{d})$	Shorthand notation for this sectional layer group
$(P + s\mathbf{d}; \mathbf{a}', \mathbf{b}', \mathbf{d})$	Reference coordinate system for the sectional layer group
$s_o = 1/f$	Length of the fundamental region along $\mathbf{d}$ in units of $\mathbf{d}$
$f = 1/s_o$	Number of planes of a general translation orbit in the interval $0 \leq s < 1$
$\mathsf{S}_1, \mathsf{S}_2$	Single domain states
$(\mathsf{S}_1, \mathsf{S}_2)$	Ordered domain pair
$\{\mathsf{S}_1, \mathsf{S}_2\}$	Unordered domain pair
$\mathcal{F}_{12}$	Symmetry group of an ordered domain pair
$\mathcal{J}_{12}$	Symmetry group of an unordered domain pair
$(\mathsf{S}_1 \vert (hkl), s\mathbf{d} \vert \mathsf{S}_2) = (\mathsf{S}_1 \vert \mathbf{n}, s\mathbf{d} \vert \mathsf{S}_2)$	Domain twin with a central plane of orientation and sidedness defined by Miller indices (hkl) or by a normal $\mathbf{n}$, and location $s\mathbf{d}$
$\overline{\mathsf{F}}_{12}, \widehat{\mathsf{F}}_{12}$	Sectional layer group of the central plane under the action of the group $\mathcal{F}_{12}$ and its floating subgroup
$\overline{\mathsf{J}}_{12}, \widehat{\mathsf{J}}_{12}$	Sectional layer group of the central plane under the action of the group $\mathcal{J}_{12}$ and its floating subgroup
T_{12}	Symmetry group of the domain twin
f_{12}	Trivial symmetry operations of the twin
$\underline{t}^*_{12}$	Nontrivial symmetry operations of the twin
$\underline{s}_{12}$	Side-reversing operations of the twin
r^*_{12}	State-reversing operations of the twin