1952), *i.e.* when one is only dealing with symmetry elements of order 1, 2 or 4 and with the trigonal axis $3_{[111]}$ of the cubic groups, which correspond to permutational or multiplicative changes of coordinates, one can easily impose rotational invariance directly on the elements of the non-tensorial arrays. This is so because purely permutational or multiplicative changes of coordinates connect to each other only elements of a non-tensorial array which are related to the corresponding tensorial components by the same numerical coefficients. Thus the invariance relations between non-tensorial elements are identical in these cases to the invariance relations between the corresponding tensorial components.

We illustrate explicitly the point for the non-tensorial elastic compliance constants S_{ij} in the symmetry group O with generating elements $4(4_z)$ and $3_{[111]}$.

$4(4_z)x\to y,\ y\to -x,\ z\to z$	$3_{[111]}x\to y,\ y\to z,\ z\to x$
$1\equiv xx\to yy\equiv 2$	$1\equiv xx\to yy\equiv 2$
$2\equiv yy\to xx\equiv 1$	$2\equiv yy\to zz\equiv 3$
$3\equiv zz\to 3$	$3\equiv zz\to xx\equiv 1$
$4\equiv yz\to -xz\equiv -5$	$4\equiv yz\to zx\equiv 5$
$5\equiv zx\to zy\equiv 4$	$5\equiv zx\to xy\equiv 6$
$6\equiv xy\to -yx\equiv -6$	$6\equiv xy\to yz\equiv 4.$

Elements S_{ij} with *one* 4 or *one* 5 are identically zero owing to $4(4_z)$. The remaining invariance equations read as follows:

$S_{11}\to S_{22}(S_{22}\to S_{11})$	$S_{11}\to S_{22}\to S_{33}$
$S_{12}\to S_{21}\equiv S_{12}$	$S_{12}\to S_{23}\to S_{31}\equiv S_{13}$
$S_{13}\to S_{23}(S_{23}\to S_{13})$	
$S_{16}\to -S_{26}(S_{26}\to -S_{16})$	$S_{16}\to S_{24}\equiv 0,\ S_{26}\to S_{34}\equiv 0$
$S_{33}\to S_{33}$	
$S_{36}\to -S_{36}\equiv 0$	
$S_{44}\to S_{55}(S_{55}\to S_{44})$	$S_{44}\to S_{55}\to S_{66}.$
$S_{45}\to -S_{54}\equiv -S_{45}\equiv 0$	
$S_{66}\to S_{66}$	

The invariant non-tensorial array S_{ij} in group O thus reads

$$\begin{matrix} S_{11} & S_{12} & S_{12} & 0 & 0 & 0\\ & S_{11} & S_{12} & 0 & 0 & 0\\ & & S_{11} & 0 & 0 & 0\\ & & & S_{44} & 0 & 0\\ & & & & S_{44} & 0\\ & & & & & S_{44}\end{matrix}$$

in accordance with Nye (1985), Table 9, p. 140.

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Surface spherical harmonics and intensity and strain pole figures of cubic textured materials. Erratum.

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Abstract

Expressions given in Tables 2 and 3 of Brakman [*Acta Cryst.* (1987), **A43**, 270-283] are corrected. Table 2, column 2, line 1 should read

$$[S^2_{HKL}P_{hkl}+S^2_{\bar H\bar K\bar L}P_{\bar h\bar k\bar l}+S^2_{K\bar HL}P_{k\bar hl}+S^2_{\bar KH\bar L}P_{\bar kh\bar l}]D^{-1}.$$

Table 3, column 2, line 2 should read

$$\tfrac{1}{2}[1+(-1)^{j+m/2}][S^2_{HKL}+(-1)^jS^2_{\bar H\bar K\bar L}]/(S^2_{HKL}+S^2_{\bar H\bar K\bar L}).$$

All relevant information is given in the *Abstract*.

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