

Orientations and Rotations, Computations in Crystallographic Textures

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Errors and typos:

1. Page 40, subsection *Quaternion components* \leftrightarrow *Euler angles*. To be consistent with (2.33) and the rest of the book, q^3 must be replaced by $-q^3$, plus a correction of $\sin \varphi_2$. After these changes, the equations are: $q^3 = -\cos(\phi/2) \sin((\varphi_1 + \varphi_2)/2)$,

$$\begin{aligned}\cos \varphi_1 &= (-q^0 q^1 - q^2 q^3)/\chi, & \sin \varphi_1 &= (-q^0 q^2 + q^1 q^3)/\chi, \\ \cos \varphi_2 &= (-q^0 q^1 + q^2 q^3)/\chi, & \sin \varphi_2 &= (q^0 q^2 + q^1 q^3)/\chi,\end{aligned}$$

and if $\phi = 0$ then $\sin(\varphi_1 + \varphi_2) = -2q^0 q^3$.

2. Page 136, lines 14-15 should read: "sample coordinate system has e_1 along the rolling direction and e_3 perpendicular to the rolling plane." (instead of " e_2 perpendicular to the rolling plane.")
3. Page 141, line 12: $(h'_1 h'_2 h'_3) \parallel (h''_1 h''_2 h''_3)$ (instead of " $[h'_1 h'_2 h'_3] \parallel [h''_1 h''_2 h''_3]$ ").
4. Page 167 (section 11.1.2), line 19: The last of the displayed equations should read: $\gamma = 2 c_{1212}$ (instead of " $\gamma = c_{1212}$ ").

Minutiae:

1. Page IV (front matter), line 4: Reymonta 25
2. Page 121, line 13: $\alpha_1(\mathbf{r}) = \arccos(\mathbf{r}_1/\mathbf{r})$ (instead of " $\alpha_1(\mathbf{r}) = \arccos((\mathbf{r}_1/\mathbf{r}))$ ").
3. Page 178, line 3, eq.(11.32): " $= \mathbf{c}^0 \langle \varepsilon \rangle +$ " (instead of " $= \mathbf{c}^0, \langle \varepsilon \rangle +$ ")
4. Page 185, line 18: "their product $\kappa\rho\gamma/2$ is" (instead of "their product is $\kappa\rho\gamma/2$ is").
5. Page 190 (References), line 6: *Kristall u. Technik*
6. Page 192 (References), line 22: KHATRI,C.G. AND MARDIA,K.V. (1977). The von Mises-Fisher matrix distribution in orientation statistics,
7. Page 194 (References), line 3 from bottom: and the Bingham distribution on S^4_+