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Nota di contenuto	Introduction -- All you need to know about symmetries, matrices, and groups -- A primer on rotations and rotation matrices -- Rotations and angular momentum -- Tensor bases: introduction to spinors -- The bilinear transformation: introduction to $SU(2)$, $SU'(2)$, and rotations. More about spinors -- Rotations and $SU(2)$. The stereographic projection -- Projective representations -- The geometry of rotations -- The topology of rotations -- The spinor representations -- The algebra of rotations: quaternions -- Double groups -- The irreducible representations of $SO(3)$ -- Examples and applications -- Solutions to problems