Chapter 0

Reference Materials

No one book contains all the relevant material. Here I list several resources, arranged by topic. My personal favorites are marked with a diamond (⋄).

0.1 General Texts

⋄ A. Zee, Group Theory in a Nutshell for Physicists (Princeton, 2016)

⋄ W.-K. Tung, Group Theory in Physics (World Scientific, 1985)

⋄ M. Hamermesh, Group Theory and its Application to Physical Problems (Dover, 1962)


• M. Tinkham, Group Theory and Quantum Mechanics (Dover, 2003)

• Z.-Q. Ma, Group Theory for Physicists (World Scientific, 2007)

• R. Mirman, Group Theory: An Intuitive Approach (World Scientific, 1997)

• M. Stone and P. Goldbart, Mathematical Physics (Cambridge, 2009)
0.2 Specific Applications


0.3 Group Theory for Solid State Physics

- B. S. Tsukerblat, *Group Theory in Chemistry and Spectroscopy* (Dover, 2006)
0.4 Lie Groups and Lie Algebras


0.4 Lie Groups and Lie Algebras


• H. J. Lipkin, *Lie Groups for Pedestrians* (Dover, 2002)


0.5 Other


• T. Weller, *Science Made Stupid* (Mariner, 1985)


• H. Beard, *Latin for All Occasions* (Villard, 1990)