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)

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

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

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

• W. Ledermann, Introduction to Group Characters (Cambridge, 1987)
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0.2 Group Theory for Solid State Physics


○ B. S. Tsukerblat, *Group Theory in Chemistry and Spectroscopy* (Dover, 2006)


• S. H. Kim, *Group Theoretical Methods and Applications to Molecules and Crystals* (Cambridge, 2005)


• R. Mirman, *Point Groups, Space Groups, Crystals, and Molecules* (World Scientific, 1999)


• A. V. Shubnikov and N. V. Belov, *Colored Symmetry* (Pergamon, 1964)

0.3 Lie Groups


0.4 Other


