



Group Theory and Its Applications in Physics (Springer Series in Solid-State Sciences)

Teturo Inui, Yukito Tanabe, Yositaka Onodera

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This textbook presents a careful introduction to group theory and its applications in atomic, molecular and solid-state physics. The reader is provided with the necessary background on the mathematical theory of groups and then shown how group theory is a powerful tool for solving physics problems. Worked examples and exercises with hints and answers encourage self-study, while the inclusion of some advanced subjects, such as the theory of induced representations and ray representations, Racah theory of atomic spectra, and Landau theory of second-order phase transitions, should interest professionals.

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