



Group Theory and Physics

By S. Sternberg

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This book is an introduction to group theory and its application to physics. The author considers the physical applications and develops mathematical theory in a presentation that is unusually cohesive and well-motivated. The book discusses many modern topics including molecular vibrations, homogeneous vector bundles, compact groups and Lie groups, and there is much discussion of the group $SU(n)$ and its representations, which is of great significance in elementary particle physics. The author also considers applications to solid-state physics. This is an essential resource for senior undergraduates and researchers in physics and applied mathematics.

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Editorial Review

Review

"...the author...has made a valuable contribution to the breaking down of artificial barriers between mathematics and physics." J.E. Humphreys, Bulletin of the American Mathematical Society

"Philosophers must thank Professor Sternberg for having written this book. Sternberg gives us an entree to quantum mechanics through the medium of group theory, probably the best such book since Weyl's Group Theory and Quantum Mechanics of 1929....The book contains a wealth of self-contained examples of the applications of group theory, the mathematics of symmetry." Mark Steiner, *Philosophia Mathematica*

"...it is fitting that physicists be made aware of this book, and I am pleased to recommend its study." Eugene Golowich, *American Journal of Physics*

"...I can highly recommend this book to anyone teaching or studying the subject. It could serve as a text in a graduate course if supplemented with exercises and problems." Meinhard Mayer, *Physics Today*

"A suitable and desirable reference for theoretically (and mathematically) oriented advanced undergraduates, graduate students, faculty and researchers, as well as mathematicians interested in the application of group theory to physics. Recommended." *Choice*

"...the subject is well shaped and the exposition is fairly lucid. I consider Sternberg's book a fine addition to the existing literature and strongly recommend it to anyone with an interest in learning how to use group theoretical methods to understand concrete physical problems." Ivailo M. Mladenov, *SIAM Review*

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