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In this book Professor Sternberg of Harvard University takes a fairly detailed look at the deep links between mathematical group theory and the underpinnings of much of modern physics. It's heavy going in many parts, requiring at least an undergraduate degree in mathematics (one containing lots of group theory) to even vaguely follow it.

Group Theory and Physics by Shlomo Sternberg

Group Theory and Physics: Author: S. Sternberg: Edition: illustrated, reprint, revised: Publisher: Cambridge University Press, 1995: ISBN: 0521558859, 9780521558853: Length: 429 pages: Subjects

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S. Sternberg 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.

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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

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Shlomo Sternberg (1994) Group Theory and Physics Cambridge University Press. ISBN 0- 521-24870-1 Steven Shnider and Shlomo Sternberg (1993) Quantum Groups. From Coalgebras to Drinfeld Algebras: A Guided Tour (Mathematical Physics Ser.) International Press

Shlomo Sternberg - Wikipedia

A group is called Abelian¹ if the operation is commutative: $g i g j = g j g i$. Obviously the center of an Abelian group is the group itself. The symmetry group C_4 of the square is Abelian; the analogous group of the cube is an example of a non-Abelian group. In physics we often deal with groups (or subgroups of) $GL(n,F)$.

Appendix A Group Theory - CERN

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This introduction to group theory and its application to physics covers molecular vibrations, homogeneous vector bundles, compact groups and Lie groups, as well as the group SU_n and its representations, which is of great significance in elementary particle physics. Sternberg gives us an entree to quantum mechanics through the medium of group theory, probably the best such book since Weyl's

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Application to Physical One of the best-written, most skillful expositions of group theory and its physical applications, directed primarily to advanced undergraduate and graduate students in physics, especially By: Morton Hamermesh No knowledge of group theory is assumed, but the reader is expected to be familiar with quantum mechanics. 25 Jan 2011 M. Hamermesh, Group Theory and its ...

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A cohesive and well-motivated introduction to group theory and its application to physics.

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An Introduction to Tensors and Group Theory for Physicists provides both an intuitive and rigorous approach to tensors and groups and their role in theoretical physics and applied mathematics. A particular aim is to demystify tensors and provide a unified framework for understanding them in the context of classical and quantum physics. Connecting the component formalism prevalent in physics calculations with the abstract but more conceptual formulation found in many mathematical texts, the work will be a welcome addition to the literature on tensors and group theory. Advanced undergraduate and graduate students in physics and applied mathematics will find clarity and insight into the subject in this textbook.

Expert treatment introduces semi-Riemannian geometry and its principal physical application, Einstein's theory of general relativity, using the Cartan exterior calculus as a principal tool. Prerequisites include linear algebra and advanced calculus. 2012 edition.

Describing many of the most important aspects of Lie group theory, this book presents the subject in a 'hands on' way. Rather than concentrating on theorems and proofs, the book shows the applications of the material to physical sciences and applied mathematics. Many examples of Lie groups and Lie algebras are given throughout the text. The relation between Lie group theory and algorithms for solving ordinary differential equations is presented and shown to be analogous to the relation between Galois groups and algorithms for solving polynomial equations. Other chapters are devoted to differential geometry, relativity, electrodynamics, and the hydrogen atom. Problems are given at the end of each chapter so readers can monitor their understanding of the materials. This is a fascinating introduction to Lie groups for graduate and undergraduate students in physics, mathematics and electrical engineering, as well as researchers in these fields.

This classic book gives, in extensive tables, the irreducible representations of the crystallographic point groups and space groups. These are useful in studying the eigenvalues and eigenfunctions of a particle or quasi-particle in a crystalline solid. The theory is extended to the corepresentations of the Shubnikov groups.

Many books explore group theory 's connection with physics, but few of them offer an introductory approach. This text provides upperlevel undergraduate and graduate students with a foundation in problem solving by means of eigenfunction transformation properties. This study focuses on eigenvalue problems in which differential equations or boundaries are unaffected by certain rotations or translations. Its explanation of transformations induced in function space by rotations (or translations) in configuration space has numerous practical applications — not only to quantum mechanics but also to anyother eigenvalue problems, including those of vibrating systems (molecules or lattices) or waveguides. Points of special interest include the development of Schur's lemma, which features a proof illustrated with a symbolic diagram. The text places particular emphasis on the geometric representation of ideas: for instance, the similarity transformation is characterized as a rotation in multidimensional function space and the reduction is described in terms of mutual orthogonal spaces. General references provide suggestions for further study, citing works of particular clarity and readability. New Preface to the Dover Edition. Problems. List of Symbols. References Cited. Systematic Bibliography. 1965 edition.

An introductory text book for graduates and advanced undergraduates on group representation theory. It emphasizes group theory's role as the mathematical framework for describing symmetry properties of classical and quantum mechanical systems. Familiarity with basic group concepts and techniques is invaluable in the education of a modern-day physicist. This book emphasizes general features and methods which demonstrate the power of the group-theoretical approach in exposing the systematics of physical systems with associated symmetry. Particular attention is given to pedagogy. In developing the theory, clarity in presenting the main ideas and consequences is given the same priority as comprehensiveness and strict rigor. To preserve the integrity of the mathematics, enough technical information is included in the appendices to make the book almost self-contained. A set of problems and solutions has been published in a separate booklet.

Symplectic geometry is very useful for clearly and concisely formulating problems in classical physics and also for understanding the link between classical problems and their quantum counterparts. It is thus a subject of interest to both mathematicians and physicists, though they have approached the subject from different view points. This is the first book that attempts to reconcile these approaches. The authors use the uncluttered, coordinate-free approach to symplectic geometry and classical mechanics that has been developed by mathematicians over the course of the last thirty years, but at the same time apply the apparatus to a great number of concrete problems. In the first chapter, the authors provide an elementary introduction to symplectic geometry and explain the key concepts and results in a

way accessible to physicists and mathematicians. The remainder of the book is devoted to the detailed analysis and study of the ideas discussed in Chapter 1. Some of the themes emphasized in the book include the pivotal role of completely integrable systems, the importance of symmetries, analogies between classical dynamics and optics, the importance of symplectic tools in classical variational theory, symplectic features of classical field theories, and the principle of general covariance. This work can be used as a textbook for graduate courses, but the depth of coverage and the wealth of information and application means that it will be of continuing interest to, and of lasting significance for mathematicians and mathematically minded physicists.

Illustrating the fascinating interplay between physics and mathematics, *Groups, Representations and Physics, Second Edition* provides a solid foundation in the theory of groups, particularly group representations. For this new, fully revised edition, the author has enhanced the book's usefulness and widened its appeal by adding a chapter on the Cartan-Dynkin treatment of Lie algebras. This treatment, a generalization of the method of raising and lowering operators used for the rotation group, leads to a systematic classification of Lie algebras and enables one to enumerate and construct their irreducible representations. Taking an approach that allows physics students to recognize the power and elegance of the abstract, axiomatic method, the book focuses on chapters that develop the formalism, followed by chapters that deal with the physical applications. It also illustrates formal mathematical definitions and proofs with numerous concrete examples.

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