

Group Theory and Quantum Mechanics, 2003, 340 pages, Michael Tinkham, 0486432475, 9780486432472, Courier Dover Publications, 2003

This graduate-level text develops the aspects of group theory most relevant to physics and chemistry (such as the theory of representations) and illustrates their applications to quantum mechanics. The first five chapters focus chiefly on the introduction of methods, illustrated by physical examples, and the final three chapters offer a systematic treatment of the quantum theory of atoms, molecules, and solids. The formal theory of finite groups and their representation is developed in Chapters 1 through 4 and illustrated by examples from the crystallographic point groups basic to solid-state and molecular theory. Chapter 5 is devoted to the theory of systems with full rotational symmetry, Chapter 6 to the systematic presentation of atomic structure, and Chapter 7 to molecular quantum mechanics. Chapter 8, which deals with solid-state physics, treats electronic energy band theory and magnetic crystal symmetry. A compact and worthwhile compilation of the scattered material on standard methods, this volume presumes a basic understanding of quantum theory.

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Atoms And Molecules , Mitchel Weissbluth, Dec 2, 2012, Science, 730 pages. Atoms And Molecules.

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A Brief Introduction to Classical, Statistical, and Quantum Mechanics , Oliver BFjehler, , Mathematics, 153 pages. .

Symmetry Principles in Solid State and Molecular Physics , Melvin J. Lax, 1974, Mathematics, 499 pages. High-level text applies group theory to solid state and molecular physics. The author develops short-cut and invariant methods for solving molecular vibration problems and for.

Quantum mechanics, Volume 1 , , 1962, Science, 1136 pages. .

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Symmetry groups theory and chemical applications, Robert L. Flurry, 1980, Science, 356 pages. .

Lectures in theoretical physics, Volume 2 , Brandeis University Summer Institute in Theoretical Physics, 1962, Science, . .

Quantum Mechanics , Albert Messiah, Feb 17, 2014, Science, 1152 pages. "Strongly recommended" by the American Journal of Physics, this volume serves as a text for advanced undergraduates and graduate students of physics as well as a reference for.

Quantum mechanics , John Leonard Powell, Bernd Crasemann, 1961, Quantum theory, 495 pages. .

Quantum Mechanics, Volume 1 , Kurt Gottfried, 1966, Quantum Theory, 494 pages. This classic

text provides a comprehensive exposition of the concepts and techniques of quantum mechanics. The phenomena treated are sufficiently simple to allow the student to.

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