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Lectures on Quantum Mechanics Steven Weinberg The University of Texas at Austin. CAMBRIDGE UNIVERSITY PRESS Cambridge, New York, Melbourne, Madrid, Cape Town, Singapore, São Paulo, Delhi, Mexico City Cambridge University Press The Edinburgh Building, Cambridge CB2 8RU, UK

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Nobel Laureate Steven Weinberg demonstrates exceptional insight in this fully updated concise introduction to modern quantum mechanics for graduate students.

"Nobel Laureate Steven Weinberg combines his exceptional physical insight with his gift for clear exposition to provide a concise introduction to modern quantum mechanics. Ideally suited to a one-year graduate course, this textbook is also a useful reference for researchers. Readers are introduced to the subject through a review of the history of quantum mechanics and an account of classic solutions of the Schrödinger equation, before quantum mechanics is developed in a modern Hilbert space approach. The textbook covers many topics not often found in other books on the subject, including alternatives to the Copenhagen interpretation, Bloch waves and band structure, the Wigner-Eckart theorem, magic numbers, isospin symmetry, the Dirac theory of constrained canonical systems, general scattering theory, the optical theorem, the 'in-in' formalism, the Berry phase, Landau levels, entanglement and quantum computing. Problems are included at the ends of chapters, with solutions available for instructors at www.cambridge.org/9781107028722"--

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Lectures on Astrophysics provides an account of classic and contemporary aspects of astrophysics, with an emphasis on analytic calculations and physical understanding. It introduces fundamental topics in astrophysics, including the properties of single and binary stars, the phenomena associated with interstellar matter, and the structure of galaxies. Nobel Laureate Steven Weinberg combines exceptional physical insight with his gift for clear exposition to cover exciting recent developments and new results. Emphasizing theoretical results, and explaining their derivation and application, this book provides an invaluable resource for physics and astronomy students and researchers.

An account of classic and contemporary aspects of astrophysics, with an emphasis on analytical calculations and physical understanding.

This is a uniquely comprehensive and detailed treatment of the theoretical and observational foundations of modern cosmology, by a Nobel Laureate in Physics. It gives up-to-date and self contained accounts of the theories and observations that have made the past few decades a golden age of cosmology.

Richard P. Feynman (1918–1988) was widely recognized as the most creative physicist of the post-World War II period. His career was extraordinarily expansive. From his contributions to the development of the atomic bomb at Los Alamos during World War II to his work in quantum electrodynamics, for which he was awarded the Nobel Prize in 1965, Feynman was celebrated for his brilliant and irreverent approach to physics. It was Feynman's outrageous and scintillating method of teaching that earned him legendary status among students and professors of physics. From 1961–1963, Feynman, at the California Institute of Technology, delivered a series of lectures that revolutionized the teaching of physics around the world. *Six Easy Pieces*, taken from the famous *Lectures on Physics*, represents the most accessible material from this series. In these six chapters, Feynman introduces the general reader to the following topics: atoms, basic physics, the relationship of physics to other topics, energy, gravitation, and quantum force. With his dazzling and inimitable wit, Feynman presents each discussion without equations or technical jargon. Readers will remember how—using ice water and rubber—Feynman demonstrated with stunning simplicity to a nationally televised audience the physics of the 1986 Challenger disaster. It is precisely this ability—the clear and direct illustration of complex theories—that made Richard Feynman one of the most distinguished educators in the world. Filled with wonderful examples and clever illustrations, *Six Easy Pieces* is the ideal introduction to the fundamentals of physics by one of the most admired and accessible scientists of our time.

This graduate-level text is based on a course in advanced quantum mechanics, taught many times at the University of Massachusetts, Amherst. Topics include propagator methods, scattering theory, charged particle interactions, alternate approximate methods, and Klein-Gordon and Dirac equations. Problems appear in the flow of the discussion, rather than at the end of chapters. 1992 edition.

Each of these essays struggles in one way or another with the necessity of facing up to the discovery that the laws of nature are impersonal, with no hint of a special status for human beings. Defending the spirit of science against its cultural adversaries, these essays express a viewpoint that is reductionist, realist, and devoutly secular. Together, they afford the general reader the unique pleasure of experiencing the superb sense, understanding, and knowledge of one of the most interesting and forceful scientific minds of our era. ease fill in marketing copy

Changes and additions to the new edition of this classic textbook include a new chapter on symmetries, new problems and examples, improved explanations, more numerical problems to be worked on a computer, new applications to solid state physics, and consolidated treatment of time-dependent potentials.

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