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author David Griffiths strikes a balance between quantitative rigor and
intuitive understanding, using a lively, informal style. The first chapter
provides a detailed historical introduction to the subject, while
subsequent chapters offer a quantitative presentation of the Standard
Model.

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In particle physics, an elementary particle or fundamental particle is a subatomic particle with no substructure, i.e. it is not composed of other particles. Particles currently thought to be elementary include the fundamental fermions, which generally are "matter particles" and "antimatter particles", as well as the fundamental bosons, which generally are "force particles" that mediate interactions among fermions. A particle containing two or more elementary particles is called a composite part

Elementary particle - Wikipedia

This is the first quantitative treatment of elementary particle theory that is accessible to undergraduates. Using a lively, informal writing style,

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the author strikes a balance between quantitative rigor and intuitive understanding. The first chapter provides a detailed historical introduction to the subject.

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Introduction to Elementary Particles by David J. Griffiths

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How Do You Detect Elementary Particles? 7 Units 8 References and Notes 10 1 Historical Introduction to the Elementary Particles 11 1 .1

The Classical Era (1 897-1 932) 1 1 1.2 The Photon (1900-1924) 14 1.3

Mesons (1 934-1 947) 17 1.4 Antiparticles (1930-1 956) 18 1.5

Neutrinos (1930-1962) 22 1.6 Strange Particles (1947-1960) 28

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This introduction to the theory of elementary particles is intended primarily for advanced undergraduates who are majoring in physics. Most of my colleagues consider this subject inappropriate for such an audience—mathematically too sophisticated, phenomenologically too cluttered, insecure in its foundations, and uncertain in its future.

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INTRODUCTION TO ELEMENTARY PARTICLES

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INTRODUCTION TO ELEMENTARY PARTICLE PHYSICS The Standard Model is the theory of the elementary building blocks of matter and ... The majority of the texts on elementary particles place special emphasis on theoretical aspects. However, physics is an experimental science and only

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An elementary particle or fundamental particle is a particle not known to have substructure; that is, it is not known to be made up of smaller particles. If an elementary particle truly has no substructure, then it is one of the basic particles of the universe from which all larger particles are made.

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The Ideas of Particle Physics: An Introduction for Scientists, 3rd ed.
Cambridge Univ. Press. An undergraduate text for those not majoring
in physics. Griffiths, David J. (1987). Introduction to Elementary
Particles. John Wiley & Sons. ISBN 978-0-471-60386-3. Kane, Gordon
L. (1987). Modern Elementary Particle Physics. Perseus Books.

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This is the first quantitative treatment of elementary particle theory that is accessible to undergraduates. Using a lively, informal writing style, the author strikes a balance between quantitative rigor and intuitive understanding. The first chapter provides a detailed historical introduction to the subject. Subsequent chapters offer a consistent and modern presentation, covering the quark model, Feynman diagrams, quantum electrodynamics, and gauge theories. A clear introduction to the Feynman rules, using a simple model, helps readers learn the calculational techniques without the complications of spin. And an accessible treatment of QED shows how to evaluate tree-level diagrams. Contains an abundance of worked examples and many end-of-chapter problems.

The Standard Model is the most comprehensive physical theory ever

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developed. This textbook conveys the basic elements of the Standard Model using elementary concepts, without the theoretical rigor found in most other texts on this subject. It contains examples of basic experiments, allowing readers to see how measurements and theory interplay in the development of physics. The author examines leptons, hadrons and quarks, before presenting the dynamics and the surprising properties of the charges of the different forces. The textbook concludes with a brief discussion on the discoveries of physics beyond the Standard Model, and its connections with cosmology. Quantitative examples are given, and the reader is guided through the necessary calculations. Each chapter ends in the exercises, and solutions to some problems are included in the book. Complete solutions are available to instructors at www.cambridge.org/9781107406094.

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An Introduction to Elementary Particles, Second Edition aims to give an introduction to the theoretical methods and ideas used to describe how elementary particles behave, as well as interpret some of the phenomena associated with it. The book covers topics such as quantum mechanics; bras, kets, vectors, and linear operations; angular momentum; scattering and reaction theory; the polarization and angularization of spin-0-spin-1/2 scattering; and symmetry, isotopic spin, and hypercharge. The book also discusses particles such as bosons, baryons, mesons, kaons, and hadrons, as well as the interactions between them. The text is recommended for physicists, especially those who are practitioners and researchers in the fields of quantum physics and elementary-particle physics.

Provides fully updated coverage of undergraduate particle physics,

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including the Higgs boson discovery, with an emphasis on physics over mathematics.

Dealing with the development of particle physics, in particular an area that has now become known as phenomenology, the author presents a solid and clear motivation for the developments witnessed by the particle physics community at both high and low energies over that last 50 or 60 years. Including exercises and references to original experimental and theoretical papers, as well as other useful sources, it will be essential reading for all students and researchers in modern particle physics.

Introduces the fundamentals of particle physics with a focus on modern developments and an intuitive physical interpretation of

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results.

Introduction to Elementary Particle Theory details the fundamental concepts and basic principles of the theory of elementary particles. The title emphasizes on the phenomenological foundations of relativistic theory and to the strong interactions from the S-matrix standpoint. The text first covers the basic description of elementary particles, and then proceeds to tackling relativistic quantum mechanics and kinematics. Next the selection deals with the problem of internal symmetry. In the last part, the title details the elements of dynamical theory. The book will be of great use to students and researchers in the field of particle physics.

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This clear and concise introduction to nuclear physics provides an excellent basis for a core undergraduate course in this area. The book opens by setting nuclear physics in the context of elementary particle physics and then shows how simple models can provide an understanding of the properties of nuclei, both in their ground states and excited states, and also of the nature of nuclear reactions. The book also includes chapters on nuclear fission, its application in nuclear power reactors, the role of nuclear physics in energy production and nucleosynthesis in stars. This second edition contains several additional topics: muon-catalysed fusion, the nuclear and neutrino physics of supernovae, neutrino mass and neutrino oscillations, and the biological effects of radiation. A knowledge of basic quantum mechanics and special relativity is assumed.

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Appendices deal with other more specialized topics. Each chapter ends with a set of problems for which outline solutions are provided.

Part of the Physics in a New Era series of assessments of the various branches of the field, Elementary-Particle Physics reviews progress in the field over the past 10 years and recommends actions needed to address the key questions that remain unanswered. It explains in simple terms the present picture of how matter is constructed. As physicists have probed ever deeper into the structure of matter, they have begun to explore one of the most fundamental questions that one can ask about the universe: What gives matter its mass? A new international accelerator to be built at the European laboratory CERN will begin to explore some of the mechanisms proposed to give matter its heft. The committee recommends full U.S. participation in this

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project as well as various other experiments and studies to be carried out now and in the longer term.

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