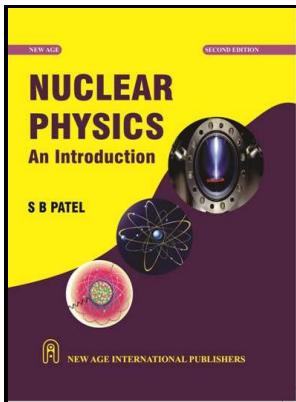


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These are unstable particles consisting of a quark- antiquark pair, to which the bag model can also be applied.

An Introduction to Nuclear Physics

This profound idea revolutionary in its time but now commonplace lies at the heart of quantum mechanics, the physical theory that underlies all phenomena at the submicroscopic level of molecules, atoms, nuclei, and elementary particles. The author has taken special care The book bridges the gap between a course on modern physics and an advanced formal treatise on nuclear physics. Certain of the proposed Grand Unified Theories predict, in fact, that such a violation should occur, in the form of spontaneous proton decay not in the sense of a radioactive beta decay, in which a proton would be converted to a neutron thus conserving baryon number but rather as an outright disappearance of a baryon the proton as such.

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Other detectors are designed to detect as many kinds of particles as INTRODUCTION TO NUCLEAR PHYSICS 33 possible, simultaneously again either for limited angles or for all angles. As we try to push this knowledge to ever deeper levels, however, we must take increasingly detailed account of specific nucleon-nucleon interactions. The passage of energetic particles through matter; Appendix A.

Ch. 31 Introduction to Radioactivity and Nuclear Physics

A knowledge of basic quantum mechanics and special relativity is assumed. Thus they are still often described as though each were fundamental.

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Their aim is not only to explain all the known facts of nuclear physics but to predict new ones whose experimental verification will confirm the correctness of the theory and extend the bounds of its applicability. It starts with the tools of nuclear physics, both experimental and mathematical.

Introduction to Applied Nuclear Physics

Since the gravitational force between any two objects depends on their masses, and since the mass of a nucleon is extremely small about 10^{-24} g, the effects of gravitation in atomic nuclei are not even close to being measurable. In 2004 he was awarded the Millikan Medal of the American Association of Physics Teachers in recognition of his contributions to physics teaching. There is no conservation law for meson number, so mesons, as well as other bosons, can proliferate without such restrictions.

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