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By Pran Nath

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This unique book gives a modern account of particle physics and gravity based on supersymmetry and supergravity, two of the most significant developments in theoretical physics since general relativity. The book begins with a brief overview of the history of unification and then goes into a detailed exposition of both fundamental and phenomenological topics. The topics in fundamental physics include Einstein gravity, Yang-Mills theory, anomalies, the standard model, supersymmetry and supergravity, and the construction of supergravity couplings with matter and gauge fields, as well as computational techniques for $SO(10)$ couplings. The topics of phenomenological interest include implications of supergravity models at colliders, CP violation, and proton stability, as well as topics in cosmology such as inflation, leptogenesis, baryogenesis, and dark matter. The book is intended for graduate students and researchers seeking to master the techniques for building grand unified models.

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Editorial Review

Review

'It is a comprehensive review of the subject for advanced graduate students. The book provides a broad overview of the field with detailed background information on group theory, field theory and notation. It covers everything from the Standard Model to supersymmetry, grand unification, supergravity and cosmology, including detailed phenomenological calculations and problems. It also introduces the extension of these theories to extra dimensions and string theory. It should be a useful tool for every student who wishes to learn this material.' Stuart Raby, Ohio State University, Columbus

About the Author

Pran Nath is Matthews University Distinguished Professor of Physics at Northeastern University, Boston. He has made pioneering contributions to the development of supergravity theory and its applications to particle physics, including the mSUGRA model. He has also contributed to the development of effective Lagrangian methods, pion physics, current algebra, solving the U(1) problem, dark matter and proton stability in unified models. He is the Founding Chair of the Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY) and the Symposium on Particles, Strings and Cosmology (PASCOS). He is a Fellow of both the American Physical Society and the American Association for the Advancement of Science, and a recipient of the Humboldt Prize in Physics.

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