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Supersymmetry And Supergravity

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Supersymmetry and Supergravity

SECOND EDITION
REVISED AND EXPANDED

PRINCETON SERIES IN PHYSICS
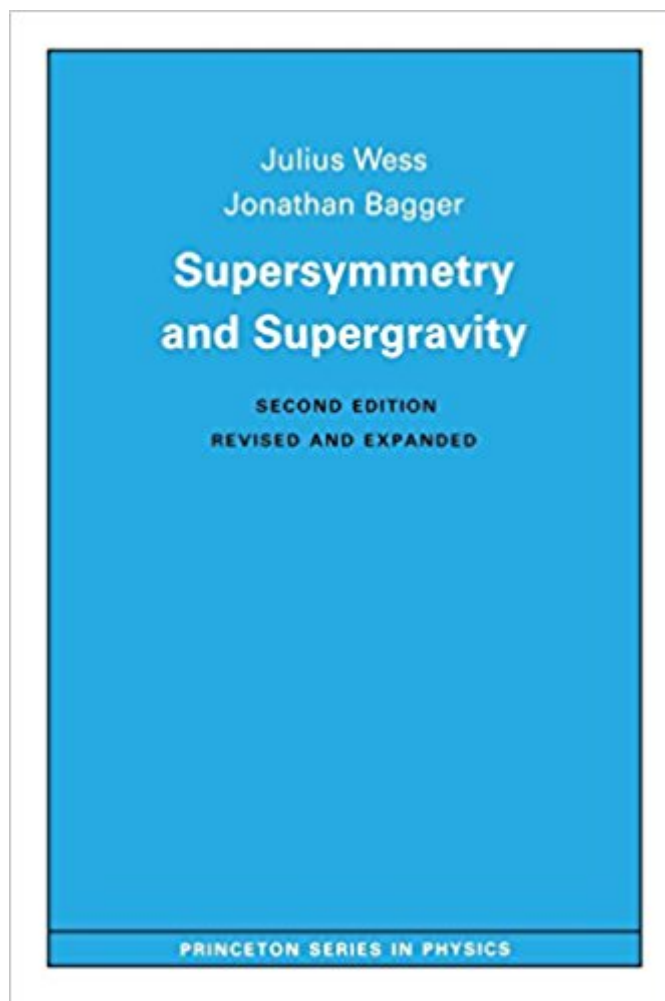
Synopsis

This widely acclaimed introduction to N = 1 supersymmetry and supergravity is aimed at readers familiar with relativistic quantum field theory who wish to learn about the supersymmetry algebra. In this new volume Supersymmetry and Supergravity has been greatly expanded to include a detailed derivation of the most general coupling of super-symmetric gauge theory to supergravity. The final result is the starting point for phenomenological studies of supersymmetric theories. The book is distinguished by its pedagogical approach to supersymmetry. It develops several topics in advanced field theory as the need arises. It emphasizes the logical coherence of the subject and should appeal to physicists whose interests range from the mathematical to the phenomenological. In praise of the first edition: "A beautiful exposition of the original ideas of Wess and Zumino in formulating N = 1 supersymmetry and supergravity theories, couched in the language of superfields introduced by Strathdee and the reviewer.... [All] serious students of particle physics would do well to acquire a copy."--Abdus Salam, Nature "An excellent introduction to this exciting area of theoretical physics."--C. J. Isham, Physics Bulletin

Book Information

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Customer Reviews

Since these lectures were given, supersymmetric particle phenomenology has been the subject of extensive study. Many models have been proposed, including some that make essential use of the supergravity multiplet. A variety of experimental searches have been carried out, and more are planned for the future.

I love this book. I had written that there were some sign mistakes, but, it was me who was confused about the signs (as I realize now after being more careful with the signs). I apologize about my previous review. Spinor fields are Grassmann-valued, in Physics (having to do with the spin-statistics theorem). Also when you use the superspace approach, you introduce extra fermionic type coordinates. The reason why these are introduced is that they allow one to work with commutators, instead of anticommutators, the former being more familiar (from the theory of Lie algebras).Back to the book, I think it is a great place for mathematicians and physicists to start, in order to understand supersymmetry. The book focuses on d=4 and N=1, which is perfect to start. The book is rather mathematical, in character. Some might complain that it is perhaps too formal, but I feel that without knowing how the yoga of supersymmetry works, in detail, it is probably difficult, if not impossible, to get a sound understanding of this concept.In all, I highly recommend this book, although it would be also useful to simultaneously look at some other sources. Arxiv contains several good introductions to supersymmetry for instance. I believe it is wise to also look at these more recent sources simultaneously.

This is one of those books that is still around becauseit fills a niche that no modern book has been ableto fill. It introduces N=1 susy quickly and concisely.The reader must work through every equation in orderto get something out of this book. The reason why peoplecontinue to use this book of equations is because theequations are right. If you try other books, they arefilled with typos and sometimes even more serious errors.Get through the first 8 chapters of this bookmay be chapter 22 and 24 then get into Argyres' notesthat delve into the modern aspects of supersymmetricquantum field theory.

This book is the classic introduction to superfields. It is very elegant an formal, and appeals to the more mathematically minded particle physics student. It contains almost nothing on phenomenological applications of supersymmetry, and keeps it's hands clean by avoiding messy but important topics, such as regularization of supersymmetric gauge theories.

Supersymmetry and Supergravity The Quantum Theory of Fields: Volume 3, Supersymmetry Henry and Mudge Collector's Set #2: Henry and Mudge Get the Cold Shivers; Henry and Mudge and the Happy Cat; Henry and Mudge and the Bedtime Thumps; ... and Mudge and the Wild Wind (Henry & Mudge) Henry and Mudge Collector's Set: Henry and Mudge; Henry and Mudge in Puddle Trouble;

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