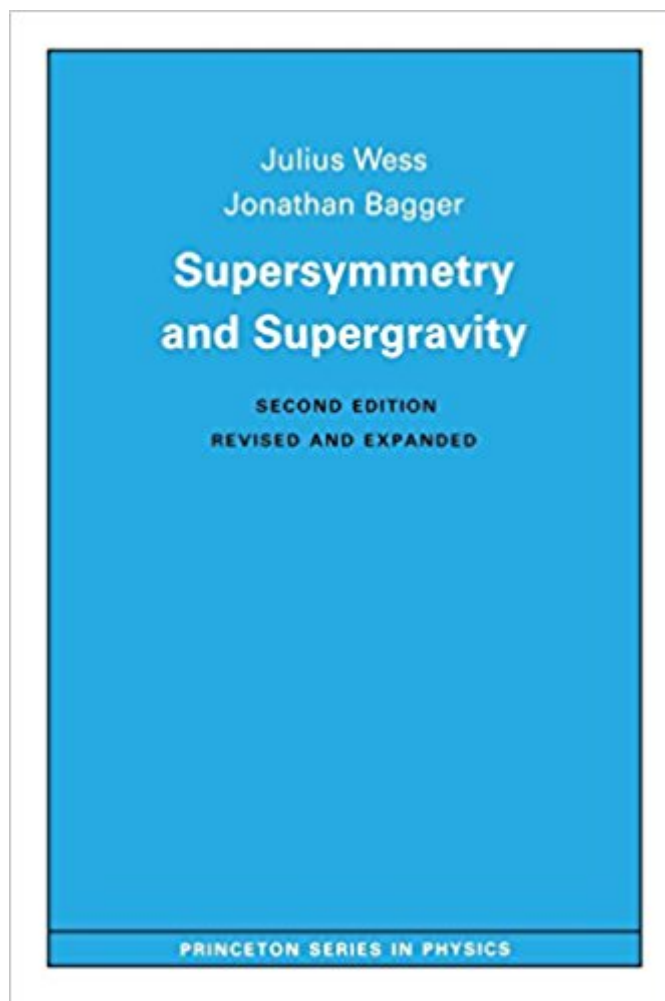


The book was found

# Supersymmetry And Supergravity



## 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

Series: Princeton Series in Physics

Paperback: 260 pages

Publisher: Princeton University Press; Revised edition (March 3, 1992)

Language: English

ISBN-10: 0691025304

ISBN-13: 978-0691025308

Product Dimensions: 6 x 0.6 x 9.2 inches

Shipping Weight: 13.6 ounces (View shipping rates and policies)

Average Customer Review: 4.3 out of 5 stars 3 customer reviews

Best Sellers Rank: #458,639 in Books (See Top 100 in Books) #15 in Books > Engineering & Transportation > Engineering > Aerospace > Gas Dynamics #80 in Books > Science & Math > Physics > Applied #98 in Books > Science & Math > Physics > Waves & Wave Mechanics

## 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 because it fills a niche that no modern book has been able to fill. It introduces  $N=1$  susy quickly and concisely. The reader must work through every equation in order to get something out of this book. The reason why people continue to use this book of equations is because the equations are right. If you try other books, they are filled with typos and sometimes even more serious errors. Get through the first 8 chapters of this book may be chapter 22 and 24 then get into Argyres' notes that delve into the modern aspects of supersymmetric quantum field theory.

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

[Download to continue reading...](#)

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;

Henry and Mudge in the Green Time; Henry and Mudge under the ... and Mudge and the Forever Sea (Henry & Mudge) Coins, medals, and seals, ancient and modern: Illustrated and described : with a sketch of the history of coins and coinage, instructions for young ... and American coins, medals and tokens, &c Prayers That Break Curses and Spells, and Release Favors and Breakthroughs: 55 Powerful Prophetic Prayers And Declarations for Breaking Curses and Spells and Commanding Favors in Your Life. The Complete Book of Essential Oils and Aromatherapy, Revised and Expanded: Over 800 Natural, Nontoxic, and Fragrant Recipes to Create Health, Beauty, and Safe Home and Work Environments The Book of Common Prayer and Administration of the Sacraments, ... of The Church of Ireland, Together with The Psalter or Psalms of David..., and the Form and Manner of Making, Ordaining and Consecrating Bishops, Priests and Deacons Atmospheric and Space Flight Dynamics: Modeling and Simulation with MATLAB<sup>®</sup> and Simulink<sup>®</sup> (Modeling and Simulation in Science, Engineering and Technology) The Ultimate Encyclopedia of Mythology: The myths and legends of the ancient worlds, from Greece, Rome and Egypt to the Norse and Celtic lands, through Persia and India to China and the Far East Nathan and Oski's Hematology and Oncology of Infancy and Childhood E-Book (Nathan and Oskis Hematology of Infancy and Childhood) Sleisenger and Fordtran's Gastrointestinal and Liver Disease Review and Assessment E-Book (Sleisenger and Fordtrans Gastrointestinal and Liver) Draw 50 Buildings and Other Structures: The Step-by-Step Way to Draw Castles and Cathedrals, Skyscrapers and Bridges, and So Much More... EMP Protecting Housing and Solar: A National EMP protection plan as well as EMP protection of family, homes and communities. Protection is achieved ... and cable surge suppression and filtering. Simple Flowers and Butterflies in Large Print: Hand drawn easy designs and large pictures of butterflies and flowers coloring book for adults (Beautiful and Simple Adult Coloring Books) (Volume 1) How to Paint and Draw: Drawing, Watercolours, Oils and Acrylics and Pastels - A Complete Course on Practical and Creative Techniques Glowdalas & More: An Adult Coloring Book of White and Black Background Mandalas and Pattern Designs for Relaxation and Stress Relief (White and Midnight Edition) The Child With Down's Syndrome: Causes, Characteristics and Acceptance, for Parents, Physicians and Persons Concerned With His Education and Care ... and Persons Concerned With His Education) The Paleo Cure: Eat Right for Your Genes, Body Type, and Personal Health Needs -- Prevent and Reverse Disease, Lose Weight Effortlessly, and Look and Feel Better than Ever The Coconut Oil and Low-Carb Solution for Alzheimer's, Parkinson's, and Other Diseases: A Guide to Using Diet and a High-Energy Food to Protect and Nourish the Brain

Contact Us

DMCA

Privacy

FAQ & Help