

**2023-08-25**

**Introduction to Supersymmetry and Supergravity** 1990 to the 1st edition of this monograph addressed to advanced graduate students and researchers the author responding to developments within superstring theory has added 51 2 chapters dealing with two dimensional supersymmetry authoritative as lucid as the subject matter allows yet demanding nonetheless attractively produced and priced nw annotation copyrighted by book news inc portland or

**Supersymmetry and Supergravity** 2020-05-05 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 abdu salam nature an excellent introduction to this exciting area of theoretical physics c j isham physics bulletin

**Supergravity** 2012-04-05 the first ever authoritative and systematic introduction to the fundamentals of supergravity written by two leaders in the field

**Superspace and Supergravity** 1981-04-30 this volume contains papers presented at the nuffield workshop on supersymmetry and its applications held at cambridge in the summer of 1985 and attended by many of the leading experts in the field in physical terms supersymmetry is a symmetry or gauge invariance which connects bosons particles with integer spin with fermions particles with half integer spin the study of supersymmetry has led to the construction of yang mills theories which are the first field theories to be free of the divergences that usually occur in quantum theories with an infinite number of degrees of freedom it has also led to the construction of supergravity and superstring theories which seem to be the best hope for a complete unified theory of all physical interactions including gravity supersymmetry and its applications reviews a number of recent advances in the area of anomalies the topology of gauge theories superstrings supergravity and super yang mills theory the papers written by both physicists and mathematicians include both expository articles and progress reports describing most recent developments

**Supersymmetry, Superfields, and Supergravity** 1986 this book presents a pedagogical introduction of supersymmetry supergravity and string theories and deals also with advanced related topics request inspection copy

*Supersymmetry and Its Applications* 1986-06-12 this book provides a comprehensive detailed and self contained account of four dimensional simple supersymmetry and supergravity it will be an indispensable source of reference for advanced graduate students postdoctoral and faculty researchers alike working in quantum field theory high energy physics gravity theory mathematical physics and applied mathematics the authors develop the subject in its superfield formulation but where appropriate for illustration analogy and comparison with conventional field theory they use the component formulation throughout the book the authors develop their material in detail with calculation and full discussions of the fundamental ideas and motivations they discuss many subjects which until now could only be found in the research literature in addition they present a plethora of new results the result is the most comprehensive book yet produced on the fundamentals of supersymmetry and supergravity after studying this book readers should be well prepared to pursue independent research in any area of supersymmetry and supergravity

**Introduction to Supersymmetry and Supergravity** 1992-01-01 the topics covered in this book include aspects of quantum gravity introduction to supersymmetry supersymmetric field theories and the gauge covariant field theory of strings superspace and supergraphs connection between supergravity and strings introduction to superstring scatter coupling supergravity general features and new results supersymmetry supergravity and superstring phenomenology kaluza klein and superstrings

**Introduction To Supersymmetry And Supergravity (Revised And Extended 2nd**

**Edition).** 1990 with this new volume one finds a detailed survey of supersymmetry and supergravity theory altogether this covers a very important field of research and endeavour in theoretical physics over the past decade the overall result of this book is a survey of fascinating field with challenging problems and high promises

*Introductory to Supersymmetry and Supergravity* 1986-07-01 this book is about supergravity which combines the principles of general relativity and local gauge invariance with the idea of supersymmetries between bosonic and fermionic degrees of freedom the authors give a thorough and pedagogical introduction to the subject suitable for beginning graduate or advanced undergraduate students in theoretical high energy physics or mathematical physics interested researchers working in these or related areas are also addressed the level of the presentation assumes a working knowledge of general relativity and basic notions of differential geometry as well as some familiarity with global supersymmetry in relativistic field theories bypassing curved superspace and other more technical approaches the book starts from the simple idea of supersymmetry as a local gauge symmetry and derives the mathematical and physical properties of supergravity in a direct and minimalistic way using a combination of explicit computations and geometrical reasoning key topics include spinors in curved spacetime pure supergravity with and without a cosmological constant matter couplings in global and local supersymmetry phenomenological and cosmological implications extended supergravity gauged supergravity and supergravity in higher spacetime dimensions

### **Ideas and Methods of Supersymmetry and Supergravity, Or a Walk Through**

**Superspace** 1995-02-23 this book offers a comprehensive discussion of developments at the interface of particle physics supergravity and cosmology for graduates and researchers

**Superstrings and Supergravity**, 1986 for the sixth course of the international school of cosmology and gravitation of the ettore maj orana centre for scientific cul ture we choose as the principal topics torsion and supergravity because in our opinion it is one of the principal tasks of today s theoretical physics to attempt to link together the theory of ele mentary particles and general relativity our aim was to delineate the present status of the principal efforts directed toward this end and to explore possible directions of work in the near future efforts to incorporate spin as a dynamic variable into the foundations of the theory of gravitation were poineered by e cartan whose contributions to this problem go back half a century accord ing to a trautman this so called einstein cartan theory is the sim plest and most natural modification of einstein s 1916 theory f hehl has contributed a very detailed and comprehensive analysis of this topic original view of non riemannian space time characteristic of einstein cartan theories is the enrichment of riemannian geometry by torsion the non symmetric part of the otherwise metric compatible affine connection torsion has a impact on the theory of elementary particles according to v de sabbata weak interactions can be based on the einstein cartan geometry in that the lagrangian describing weak interactions and torsion inter action possess analogous structures leading to a unification of weak and gravitational forces

Supersymmetry and Supergravity 1992 ideas and methods of supersymmetry and supergravity or a walk through superspace provides a comprehensive detailed and self contained account of four dimensional simple supersymmetry and supergravity throughout the book the authors cultivate their material in detail with calculations and full discussions of the fundamental ideas and motivations they develop the subject in its superfield formulations but where appropriate for illustration analogy and comparison with conventional field theory they use the component formulation the book discusses many subjects that until now can only be found in the research literature in addition it presents a plethora of new results combining classical and quantum field theory with group theory differential geometry and algebra the book begins with a solid mathematical background that is used in the rest of the book the next chapter covers algebraic aspects of supersymmetry and the concepts of superspace and superfield in the following chapters the book presents classical and quantum superfield theory and the superfield formulation of supergravity a synthesis of results and methods developed in the book the final chapter concludes with the theory of effective action in curved superspaces after studying this book readers should be well prepared to pursue independent research in any area of supersymmetry and supergravity it will be an indispensable source of reference for advanced graduate students postdoctoral faculty and researchers involved in quantum field theory high energy physics gravity theory mathematical physics and applied mathematics

**Supersymmetry and Supergravity '84** 1984 this book addresses supergravity and

supergravity motivated effective field theories in the context of cosmological model building extracting information about quintessence from string theory has attracted much attention in the past few years the question became more urgent very recently after the possibility of obtaining de sitter space was called into question therefore there is an interesting debate as to whether de sitter space or even quintessence can be derived from a fundamental theory string theory or otherwise this is a very active field of research and the topics covered in the book render this work very timely throughout the book special care has been taken in demonstrating historical relevance of the field and describing the set of open questions motivating the state of the art research the first few chapters in each part provide a detailed review of standard perturbative and non perturbative techniques in supergravity model building as a way to prepare the reader for the more technical and original subsequent chapters these early chapters also represent a self contained review that would be useful for anyone planning to enter this challenging area of study the subsequent chapters detail research in supergravity motivated effective field theories in the first part and supergravity models in the second part one of the important conclusions in this book is that modelling quintessence in perturbative string theory is at least as challenging as modelling de sitter placing the wider programme on a collision course with observations

**Supersymmetry and Supergravity** 1986 a self contained introduction to supersymmetry for graduate students advanced undergraduates and research staff in mathematical theoretical and high energy physics and related disciplines

**Supergravity** 2021-10-25 this book provides a self contained presentation of supergravity theories from its fundamentals to its most recent union with string and superstring theories which are also reviewed in a self contained manner the subject is presented consistently in a unified geometric formalism relying on the calculus of exterior forms and the mathematics needed to develop the theory is explained in appropriate chapters

**Supersymmetry, Supergravity, and Unification** 2016-12-15

*Cosmology and Gravitation* 2012-12-06

**Introduction to Supersymmetric Field Theory** 1998-01-01

**Supersymmetry and Supergravity '82** 1983

**Supersymmetry and Supergravity, 1983** 1983

**Supersymmetry and Supergravity ...** 1986

On Supersymmetric and Supergravity Theories 1986

*Supersymmetry and Supergravity* 1984

**Supersymmetry and Supergravity '84** 2023-01-01

*Dark Energy* 1983

*Supersymmetry and Supergravity : a Short Review* 1981

**Studies in Gravity and Supergravity** 1983

**Supersymmetry and Supergravity ...** 1982

**Spring School on Supergravity and Supersymmetry** 1983

**Supersymmetry and Supergravity '82** 1984

**Supersymmetry and Supergravity Nonperturbative Qcd** 1986

*Supersymmetry, Superfields and Supergravity* 1993

Supersymmetry and Supergravity: Phenomenology and Grand Unification 1983

Supersymmetry and Supergravity, 1983 1983

**Relativity, Cosmology, Topological Mass, and Supergravity** 1984

**Problems in Unification and Supergravity** 1987

*Aspects of Gravity and Supergravity Theories* 1993

**Supersymmetry and Supergravity** 1991-06-11

**Supergravity And Superstrings: A Geometric Perspective (In 3 Volumes)** 1987

**Aspects of Gravity and Supergravity Theories**

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