

# Superstring theory

VOLUME I  
INTRODUCTION

M. B. GREEN, J. H. SCHWARZ & E. WITTEN

CAMBRIDGE MONOGRAPHS ON  
MATHEMATICAL PHYSICS

# Superstring Theory Introduction

**Richard J Szabo**



## **Superstring Theory Introduction:**

Superstring Theory: Volume 1, Introduction Michael B. Green, John H. Schwarz, Edward Witten, 2012-07-26 Twenty five years ago Michael Green John Schwarz and Edward Witten wrote two volumes on string theory Published during a period of rapid progress in this subject these volumes were highly influential for a generation of students and researchers Despite the immense progress that has been made in the field since then the systematic exposition of the foundations of superstring theory presented in these volumes is just as relevant today as when first published A self contained introduction to superstrings Volume 1 begins with an elementary treatment of the bosonic string before describing the incorporation of additional degrees of freedom fermionic degrees of freedom leading to supersymmetry and internal quantum numbers leading to gauge interactions A detailed discussion of the evaluation of tree approximation scattering amplitudes is also given Featuring a new preface setting the work in context in light of recent advances this book is invaluable for graduate students and researchers in general relativity and elementary particle theory

**Superstring Theory: Volume 1, Introduction**  
Michael B. Green, John H. Schwarz, Edward Witten, 1988-07-29 Vol 1 **Introduction to Superstrings and M-Theory**  
Michio Kaku, 1999-07-30 Called by some the theory of everything superstrings may solve a problem which has eluded physicists for the past 50 years the final unification of the two great theories of the twentieth century general relativity and quantum field theory This is a course tested comprehensive introductory graduate text on superstrings which stresses the most current areas of interest not covered in other presentation including string field theory multi loops Teichmueller spaces conformal field theory and four dimensional strings The book begins with a simple discussion of point particle theory and uses the Feynman path integral technique to unify the presentation of superstrings Prerequisites are an acquaintance with quantum mechanics and relativity This second edition has been revised and updated throughout

**Superstring Theory**  
Michael B. Green, John H. Schwarz, E. Witten, 2012 Superstring Theory Michael B. Green, 1988 **Superstring Theory**, 1987 Superstring Theory: Introduction Michael B. Green, 2012 *Introduction to Superstrings* Michio Kaku, 2012-12-06

We are all agreed that your theory is crazy The question which divides us is whether it is crazy enough Niels Bohr Superstring theory has emerged as the most promising candidate for a quantum theory of all known interactions Superstrings apparently solve a problem that has defied solution for the past 50 years namely the unification of the two great fundamental physical theories of the century quantum field theory and general relativity Superstring theory introduces an entirely new physical picture into theoretical physics and a new mathematics that has startled even the mathematicians Ironically although superstring theory is supposed to provide a unified field theory of the universe the theory itself often seems like a confused jumble of folklore random rules of thumb and intuition This is because the development of superstring theory has been unlike that of any other theory such as general relativity which began with a geometry and an action and later evolved into a quantum theory Superstring theory by contrast has been evolving backward for the past 20 years It has a

bizarre history beginning with the purely accidental discovery of the quantum theory in 1968 by G Veneziano and M Suzuki Thumbing through old math books they stumbled by chance on the Beta function written down in the last century by mathematician Leonhard Euler

Superstring Theory: Volume 2, Loop Amplitudes, Anomalies and Phenomenology Michael B. Green, John H. Schwarz, Edward Witten, 1988-07-29 A two volume systematic exposition of superstring theory and its applications which presents many of the new mathematical tools that theoretical physicists are likely to need in coming years This volume contains an introduction to superstrings

Introduction to Superstring Theory Elias Kiritsis, 1998 String Theory now almost 30 years of age was partly forgotten but came back to the forefront of theoretical particle physics in 1984 In this book based on lectures by the author at the K U Leuven and at the University of Padova Elias Kiritsis takes the reader through the developments of the last 15 years conformal field theory the various superstrings and their spectra compactifications and the effective description of low energy degrees of freedom It ends by showing a glimpse of the most recent developments dualities of strings and higher dimensional objects that influence both traditional field theory and present day mathematics

Readership Theoretical physicists and mathematicians with an interest in modern string theory

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 Richard J Szabo,2011-01-07 This invaluable book provides a quick introduction to the rudiments of perturbative string theory and a detailed introduction to the more current topic of D brane dynamics The presentation is very pedagogical with much of the technical detail streamlined The rapid but highly coherent introduction to the subject is perhaps what distinguishes this book from other string theory or D brane books This second edition includes an additional appendix with solutions to the exercises thus expanding on some of the technical material and making the book more appealing for use in lecture courses The material is based on mini courses in theoretical high energy physics delivered by the author at various summer schools so its actual level has been appropriately tested a     **Superstring Theory: Introduction. Reprinted with corrections 1988** Michael B. Green,1987     **Basic Concepts of String Theory** Ralph Blumenhagen,Dieter Lüst,Stefan Theisen,2012-10-03 The purpose of this book is to thoroughly prepare the reader for research in string theory at an intermediate level As such it is not a compendium of results but intended as textbook in the sense that most of the material is organized in a pedagogical and self contained fashion Beyond the basics a number of more advanced topics are introduced such as conformal field theory superstrings and string dualities the text does not cover applications to black hole physics and cosmology nor strings theory at finite temperatures End of chapter references have been added to guide the reader wishing to pursue further studies or to start research in well defined topics covered by this book     *String Theory and M-theory*  
 Becker Katrin Schwarz John H Becker Melanie,Katrin Becker,Melanie Becker,John H. Schwarz,2014-05-14 This book guides the reader through string theory one of the most exciting and challenging areas of modern theoretical physics It is ideal for graduate students and researchers in modern string theory and will make an excellent textbook It contains exercises with solutions and homework problems with solutions

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