



String Theory

**Michael B. Green, John H.
Schwarz, Edward Witten**



String Theory:

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

A Primer on String Theory Volker Schomerus, 2017-06-26 Since its conception in the 1960s string theory has been hailed as one of the most promising routes we have to unify quantum mechanics and general relativity This book provides a concise introduction to string theory explaining central concepts mathematical tools and covering recent developments in physics including compactifications and gauge string dualities With string theory being a multidisciplinary field interfacing with high energy physics mathematics and quantum field theory this book is ideal for both students with no previous knowledge of the field and scholars from other disciplines who are looking for an introduction to basic concepts

String Theory For Dummies Andrew Zimmerman Jones, 2009-11-16 A clear plain English guide to this complex scientific theory String theory is the hottest topic in physics right now with books on the subject pro and con flying out of the stores String Theory For Dummies offers an accessible introduction to this highly mathematical theory of everything which posits ten or more dimensions in an attempt to explain the basic nature of matter and energy Written for both students and people interested in science this guide explains concepts discusses the string theory's hypotheses and predictions and presents the math in an approachable manner It features in depth examples and an easy to understand style so that readers can understand this controversial cutting edge theory

The Birth of String Theory Andrea Cappelletti, Elena Castellani, Filippo Colomo, Paolo Di Vecchia, 2012-04-12 Explores the early stages of the development of string theory essential reading for physicists historians and philosophers of science

String Theory in a Nutshell Elias Kiritsis, 2019-04-16 The essential introduction to modern string theory now fully expanded and revised String Theory in a Nutshell is the definitive introduction to modern string theory Written by one of the world's leading authorities on the subject this concise and accessible book starts with basic definitions and guides readers from classic topics to the most exciting frontiers of research today It covers perturbative string theory the unity of string interactions black holes and their microscopic entropy the AdS CFT correspondence and its applications matrix model tools for string theory and more It also includes 600 exercises and serves as a self contained guide to the literature This fully updated edition features an entirely new chapter on flux compactifications in string theory and the chapter on AdS CFT has been substantially expanded by adding many applications to diverse topics In addition the discussion of conformal field theory has been extensively

revised to make it more student friendly The essential one volume reference for students and researchers in theoretical high energy physics Now fully expanded and revised Provides expanded coverage of AdS CFT and its applications namely the holographic renormalization group holographic theories for Yang Mills and QCD nonequilibrium thermal physics finite density physics and entanglement entropy Ideal for mathematicians and physicists specializing in theoretical cosmology QCD and novel approaches to condensed matter systems An online illustration package is available to professors

Why String Theory? Joseph Conlon, 2016-08-19 Provides the only modern popular science account of string theory accessible to a general audience Covers a wide range of contemporary mathematics and describes the big picture of known physics Addresses applications and criticisms of string theory

A First Course in String Theory Barton Zwiebach, 2009-01-22 String theory made understandable Barton Zwiebach is once again faithful to his goal of making string theory accessible to undergraduates He presents the main concepts of string theory in a concrete and physical way to develop intuition before formalism often through simplified and illustrative examples Complete and thorough in its coverage this new edition now includes AdS CFT correspondence and introduces superstrings It is perfectly suited to introductory courses in string theory for students with a background in mathematics and physics New sections cover strings on orbifolds cosmic strings moduli stabilization and the string theory landscape Now with almost 300 problems and exercises with password protected solutions for instructors at www.cambridge.org/zwiebach

Not Even Wrong Peter Woit, 2007-03-09 At what point does theory depart the realm of testable hypothesis and come to resemble something like aesthetic speculation or even theology The legendary physicist Wolfgang Pauli had a phrase for such ideas He would describe them as not even wrong meaning that they were so incomplete that they could not even be used to make predictions to compare with observations to see whether they were wrong or not In Peter Woit's view superstring theory is just such an idea In Not Even Wrong he shows that what many physicists call superstring theory is not a theory at all It makes no predictions even wrong ones and this very lack of falsifiability is what has allowed the subject to survive and flourish Not Even Wrong explains why the mathematical conditions for progress in physics are entirely absent from superstring theory today and shows that judgments about scientific statements which should be based on the logical consistency of argument and experimental evidence are instead based on the eminence of those claiming to know the truth In the face of many books from enthusiasts for string theory this book presents the other side of the story

Superstring Theory: Volume 1, Introduction Michael B. Green, John H. Schwarz, Edward Witten, 1988-07-29 Vol 1

The Emergence of Spacetime in String Theory Tiziana Vistarini, 2019-06-12 The nature of space and time is one of the most fascinating and fundamental philosophical issues which presently engages at the deepest level with physics During the last thirty years this notion has been object of an intense critical review in the light of new scientific theories which try to combine the principles of both general relativity and quantum theory called theories of quantum gravity This book considers the way string theory shapes its own account of spacetime disappearance from the

fundamental level **String Theory Demystified** David McMahon, 2008-08-31 UNRAVEL the mystery of STRING THEORY Trying to understand string theory but ending up with your brain in knots Here s your lifeline This straightforward guide explains the fundamental principles behind this cutting edge concept String Theory Demystified elucidates the goal of the theory to combine general relativity and quantum theory into a single unified framework You ll learn about classical strings conformal field theory quantization compactification and T duality The book covers supersymmetry and superstrings D branes the holographic principle and cosmology Hundreds of examples and illustrations make it easy to understand the material and end of chapter quizzes and a final exam help reinforce learning This fast and easy guide offers Numerous figures to illustrate key concepts Sample problems with worked solutions Coverage of equations of motion the energy momentum tensor and conserved currents A discussion of the Randall Sundrum model A time saving approach to performing better on an exam or at work Simple enough for a beginner but challenging enough for an advanced student String Theory Demystified is your key to comprehending this theory of everything **A Brief History of String Theory** Dean Rickles, 2014-02-18 During its forty year lifespan string theory has always had the power to divide being called both a theory of everything and a theory of nothing Critics have even questioned whether it qualifies as a scientific theory at all This book adopts an objective stance standing back from the question of the truth or falsity of string theory and instead focusing on how it came to be and how it came to occupy its present position in physics An unexpectedly rich history is revealed with deep connections to our most well established physical theories Fully self contained and written in a lively fashion the book will appeal to a wide variety of readers from novice to specialist *String Theory and the Scientific Method* Richard Dawid, 2013-05-02 Explains why string theorists develop a strong belief in their theory despite the lack of empirical confirmation Principles of String Theory Lars Brink, Marc Henneaux, 2013-11-11 The almost irresistible beauty of string theory has seduced many theoretical physicists in recent years Even hardened men have been swept away by what they can already see and by the promise of even more It would appear fair to say that it is not yet clear what form the theory will finally take and in what precise way it will relate to the physical world However it would seem equally fair to state that most likely strings are here to stay and will play a profound and central role in our conception of the universe There is therefore a pressing need to provide both practicing physicists and advanced students with ways to master quickly but soundly the basic principles of the theory The present volume is a step in that direction It contains a lucid presentation of the basic principles of string theory in forms which may survive future developments The book is an outgrowth of lectures given by Lars Brink and Marc Henneaux at the Centro de Estudios Científicos de Santiago The lectures covered in a self contained manner different but complementary aspects of the foundations of string theory **The Little Book of String Theory** Steven S. Gubser, 2010-02-08 The essential beginner s guide to string theory The Little Book of String Theory offers a short accessible and entertaining introduction to one of the most talked about areas of physics today String theory has been called the theory

of everything It seeks to describe all the fundamental forces of nature It encompasses gravity and quantum mechanics in one unifying theory But it is unproven and fraught with controversy After reading this book you ll be able to draw your own conclusions about string theory Steve Gubser begins by explaining Einstein s famous equation $E = mc^2$ quantum mechanics and black holes He then gives readers a crash course in string theory and the core ideas behind it In plain English and with a minimum of mathematics Gubser covers strings branes string dualities extra dimensions curved spacetime quantum fluctuations symmetry and supersymmetry He describes efforts to link string theory to experimental physics and uses analogies that nonscientists can understand How does Chopin s Fantasie Impromptu relate to quantum mechanics What would it be like to fall into a black hole Why is dancing a waltz similar to contemplating a string duality Find out in the pages of this book **The Little Book of String Theory** is the essential most up to date beginner s guide to this elegant multidimensional field of physics

Superstring Theory Michael B. Green, John H. Schwarz, Edward Witten, 2012-07-26 The twenty fifth anniversary edition featuring a new Preface invaluable for graduate students and researchers in high energy physics and astrophysics

String Cosmology Johanna Erdmenger, 2009-07-14 This relatively new field applies equations from string theory to solve the questions of early cosmology since the standard picture of our universe emerging from a big bang leaves many fundamental issues unanswered String theory on the other hand postulates that fundamental ingredients of nature are not zero dimensional point particles but tiny one dimensional filaments This theory harmoniously unites quantum mechanics and general relativity the previously known laws of the small and the large which are otherwise incompatible The field of string cosmology has matured considerably over the past few years attracting many new adherents Due to the multidisciplinary nature of the topic it is difficult for practitioners to be conversant with all the many different aspects This book thus fills a huge gap by bringing together all the different strains of research into one single volume The resulting collection of selected articles presents the latest ongoing results from renowned experts currently working in the field From the contents Introduction to Cosmology and String Theory String Inflation Brane Inflation and Inflation from Moduli Cosmic Superstrings The CMB as a Possible Probe of String Theory String Gas Cosmology Gauge gravity Duality and String Cosmology Heterotic M theory and C A welcome addition to the literature for graduate students students in astronomy astronomers mathematicians and theoretical physicists

Cosmology and String Theory Horațiu Năstase, 2019-04-04 Cosmology describes the evolution of the Universe and is based on a description of its beginning from quantum fluctuations String theory is the only known consistent theory of quantum gravity that can deal with the highest energy scales near the Planck energy relevant for cosmology s beginning As a result only string theory can give a fully consistent picture of cosmological origins This book describes the best current avenues for obtaining cosmology from string theory It is aimed at graduate students and also researchers with some familiarity with cosmology and string theory however no detailed knowledge is required

Supersymmetric Gauge Field Theory and String Theory D. Bailin, Alexander Love, 1994-01-01

Designed as a sequel to the authors Introduction to Gauge Field Theory Supersymmetric Gauge Field Theory and String Theory introduces first year graduate students to supersymmetric theories including supergravity and superstring theories Starting with the necessary background in quantum field theory the book covers the three key topics of high energy physics The emphasis is on practical calculations rather than abstract generalities or phenomenological results Where possible the authors show how to calculate connecting the theoretical with the phenomenological While the field continues to advance and grow this book addresses the basic theory at the core and will likely remain relevant even if more advanced ideas change

The Trouble with Physics Lee Smolin, 2006 Sample Text

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