

Lectures On String Theory Lecture Notes In Physics Hardcover

Lectures on String Theory Progress In String Theory: Tasi 2003 Lecture Notes String Theory and the Real World: From particle physics to astrophysics A Short Introduction to String Theory A First Course in String Theory Lecture Notes on String Theory, Field Theory and Holographic Theory Recent Developments in String Theory A Primer on String Theory Strings and Fundamental Physics String Theory in a Nutshell Lecture Notes on String Theory, Field Theory, & Holographic Theory String Theory, Gauge Theory and Quantum Gravity Conformal Invariance and String Theory Lecture Notes from the Graduate School on Contemporary String Theory and Brane Physics Enumerative Invariants in Algebraic Geometry and String Theory A Mathematical Introduction to String Theory Progress in String Theory Lectures on Quantum Gravity Naturalness, String Landscape and Multiverse Principles of String Theory Dieter Lüst Juan M Maldacena Thomas Mohaupt Barton Zwiebach Ryo Suzuki Wolfgang Lerche Volker Schomerus Marco Baumgartl Elias Kiritsis Ryo Suzuki R. Dijkgraaf Petre Dita Institute of Physics Marcos Marino Sergio Albeverio Juan Martín Maldacena Andres Gomberoff Arthur Hebecker Lars Brink

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this book provides a self contained introduction to string theory at present one of the most exciting and fastest growing areas in theoretical high energy physics pedagogical in character it introduces modern techniques and concepts such as conformal and superconformal field theory kac moody algebras etc stressing their

relevance and application to string theory rather than the formal aspects the reader is led from a basic discussion of the classical bosonic string to the construction of four dimensional heterotic string models an area of current research the so called covariant lattice construction is discussed in detail being conceptually very simple the book serves to exemplify the relevant features of other methods of arriving at four dimensional string theories it is also shown how one derives a low energy field theory from string theory thereby making contact with conventional point particle physics

intended mainly for advanced graduate students in theoretical physics this comprehensive volume covers recent advances in string theory and field theory dualities it is based on the annual lectures given at the school of the theoretical advanced study institute 2003 a traditional event that brings together graduate students in high energy physics for an intensive course given by leaders in their fields the first lecture by paul aspinwall is a description of branes in calabi yau manifolds which includes an introduction to the modern ideas of derived categories and their relation to d branes juan maldacena s second lecture is a short introduction to the ads cft correspondence with a short discussion on its plane wave limit tachyon condensation for open strings is discussed in the third lecture by ashoke sen while eva silverstein provides a useful summary of the various attempts to produce four dimensional physics out of string theory and m theory in the fourth lecture matthew strassler s fifth lecture is a careful discussion of a theory that has played a very important role in recent developments in string theory a quantum field theory that produces a duality cascade which also has a large n gravity description the sixth lecture by washington taylor explains how to perform perturbative computations using string field theory the written presentation of these lectures is detailed yet straightforward and they will be of great use to both students and experienced researchers in high energy theoretical physics

this book is a collection of lectures given in july 2007 at the les houches summer school on string theory and the real world from particle physics to astrophysics provides a pedagogical introduction to topics in string theory and cosmology addresses each topic from the basis to the most recent developments covers the lectures by internationally renowned and leading experts

a concise and pedagogical introduction to string theory for graduate students featuring examples and homework problems

publisher description

a concise introduction to string theory explaining central concepts mathematical tools and recent developments in the field of physics covering fundamental concepts including how strings interact with each other this book is perfect for students with no prior knowledge as well as scholars from other disciplines

the basic idea simple and revolutionary at the same time to replace the concept of a point particle with a one dimensional string has opened up a whole new field of research even today four decades later its multifaceted consequences are still not fully conceivable up to now string theory has offered a new way to view each particle as different excitations of the same fundamental object it has celebrated success in discovering the graviton in its spectrum and it has naturally led scientists to posit space times with more than four dimensions which in turn has triggered numerous interesting developments in fields as varied as condensed matter physics and pure mathematics this book collects pedagogical lectures by leading experts in string theory introducing the non specialist reader to some of the newest developments in the field the carefully selected topics are at the cutting edge of research in string theory and include new developments in topological strings or ads cft dualities as well as newly emerging subfields such as doubled field theory and holography in the hydrodynamic regime the contributions to this book have been selected and arranged in such a way as to form a self contained graduate level textbook

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

conformal invariance and string theory is an account of the series of lectures held in summer school regarding conformal invariance and string theory in september 1987 the purpose of the lectures is to present the important problems and results in these two areas of theoretical physics the text is divided into two major parts part i deals with implications of conformal invariance in studying two dimensional systems part ii meanwhile presents lectures regarding the advances in string theory and other related topics also included in the text is a part dedicated to the topic of determinants this

topic is discussed in two parts the first focuses on the determinants in the finite dimensional case while the second talks about fredholm determinants the book is a helpful source of reference to students and researchers in the field of physics specifically quantum and theoretical

starting in the middle of the 80s there has been a growing and fruitful interaction between algebraic geometry and certain areas of theoretical high energy physics especially the various versions of string theory physical heuristics have provided inspiration for new mathematical definitions such as that of gromov witten invariants leading in turn to the solution of problems in enumerative geometry conversely the availability of mathematically rigorous definitions and theorems has benefited the physics research by providing the required evidence in fields where experimental testing seems problematic the aim of this volume a result of the cime summer school held in cetraro italy in 2005 is to cover part of the most recent and interesting findings in this subject

this book deals with the mathematical aspects of string theory

d branes on calabi yau manifolds paul s aspinwall lectures on ads cft juan m maldacena tachyon dynamics in open string theory ashoke sen tasi pitp iss lectures on moduli and microphysics eva silverstein the duality cascade matthew j strassler perturbative computations in string field theory washington taylor student seminars student participants lecturers directors and local organizing committee

the 2002 pan american advanced studies institute school on quantum gravity was held at the centro de estudios cientificos cecs valdivia chile january 4 14 2002 the school featured lectures by ten speakers and was attended by nearly 70 students from over 14 countries a primary goal was to foster interaction and communication between participants from different cultures both in the layman s sense of the term and in terms of approaches to quantum gravity we hope that the links formed by students and the school will persist throughout their professional lives continuing to promote interaction and the essential exchange of ideas that drives research forward this volume contains improved and updated versions of the lectures given at the school it has been prepared both as a reminder for the participants and so that these pedagogical introductions can be made available to others who were unable to attend we expect them to serve students of all ages well

this book presents a string theoretic approach to new ideas in particle physics also known as physics beyond the standard model and to cosmology the concept of naturalness and its apparent violation by the low electroweak scale and the small cosmological constant is emphasized it is shown that string theory through its multitude of solutions known as the landscape offers a partial resolution to these naturalness problems as well as suggesting more speculative possibilities like that of a multiverse the book is based on a one semester course as such it has a pedagogical

approach is self contained and includes many exercises with solutions notably the basics of string theory are introduced as part of the lectures these notes are aimed at graduate students with a solid background in quantum field theory as well as at young researchers from theoretical particle physics to mathematical physics this text also benefits students who are in the process of studying string theory at a deeper level in this case the volume serves as additional reading beyond a formal string theory course

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 cientificos de santiago the lectures covered in a self contained manner different but complementary aspects of the foundations of string theory

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