An Introduction to String Theory and D-Brane Dynamics

With Problems and Solutions

2nd Edition

Richard J Szabo

Imperial College Press

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Edward K. Blum, Sergey V. Lototsky

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reality He then ties all of these notions into a new view of nature which supports the premise that the future can be created with thoughts In the final analysis he brings his readers through the necessary steps to put this knowledge to work to help them ordain their own reality String Theory and M-Theory Katrin Becker, Melanie Becker, John H. Schwarz, 2006-12-07 String theory is one of the most exciting and challenging areas of modern theoretical physics This book guides the reader from the basics of string theory to recent developments It introduces the basics of perturbative string theory world sheet supersymmetry space time supersymmetry conformal field theory and the heterotic string before describing modern developments including D branes string dualities and M theory It then covers string geometry and flux compactifications applications to cosmology and particle physics black holes in string theory and M theory and the microscopic origin of black hole entropy It concludes with Matrix theory the AdS CFT duality and its generalizations This book is ideal for graduate students and researchers in modern string theory and will make an excellent textbook for a one year course on string theory It contains over 120 exercises with solutions and over 200 homework problems with solutions available on a password protected website for lecturers at www cambridge org 9780521860697 **String Theory and the Real World: From** particle physics to astrophysics ,2008-07-29 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 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 **Weaving the Universe** Paul S. Wesson, 2011 A thorough but short review of the history and present status of ideas in cosmology The book is aimed

at a broad audience but will contain a few equations where needed to make the argument exact 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 Recent Developments in General Relativity B. Casciaro, D. Fortunato, M. Francaviglia, A. Masiello, 2011-06-28 The 13th Italian Conference on General Relativity and Gravitational Physics was held in Cala Corvino Monopoli Bari from September 21 to September 25 1998 The Conference which is held every other year in different Italian locations has brought together as in the earlier conferences in this series those scientists who are interested and actively work in all aspects of general relativity from both the mathematical and the physical points of view from classical theories of gravitation to quantum gravity from relativistic astrophysics and cosmology to experiments in gravitation About 70 participants came from Departments of Astronomy and Astrophysics Departments of Mathematics and Departments of Experimental and Theoretical Physics from all over the Country in addition a few Italian scientists working abroad kindly accepted invitations from the Scientific Committee The good wishes of the University and of the Politecnico di Bari were conveyed by the director of Diparti mento Interuniversitario di Matematica Prof Franco Altomare These proceedings contain the contributions of the two winners of the SIGRAV prizes the invited talks presented at the Conference and most of the contributed talks We thank all of our colleagues who did their best to prepare their manuscripts The pleasant atmosphere induced by the beauty of the place was greatly enhanced not only by the participation of so many colleagues who had lively discussions about science well beyond Conference hours but also by the feeling of hospitality extended to the participants by the staff of the Cala Corvino Hotel where the Conference was held **Ouantum** States And Scattering In Semiconductor Nanostructures Gerald Bastard, Francesca Carosella, Camille Ndebeka-bandou, 2017-08-03 This book is an introduction to quantum states and of their scattering in semiconductor nanostructures Written with exercises and detailed solutions it is designed to enable readers to start modelling actual electron states and scattering in nanostructures It first looks at practical aspects of quantum states and emphasises the variational and perturbation approaches Following this there is analysis of quasi two dimensional materials including discussion of the eigenstates of nanostructures scattering mechanisms and their numerical results Focussing on practical applications this book moves away from standard discourse on theory and provides students of physics nanotechnology and materials science with the opportunity to fully understand the electronic properties of nanostructures Guide To

Mathematical Methods For Physicists, A: Advanced Topics And Applications Michela Petrini, Gianfranco Pradisi, Alberto Zaffaroni, 2018-08-29 This book provides a self contained and rigorous presentation of the main mathematical tools needed to approach many courses at the last year of undergraduate in Physics and MSc programs from Electromagnetism to Quantum Mechanics It complements A Guide to Mathematical Methods for Physicists with advanced topics and physical applications The different arguments are organised in three main sections Complex Analysis Differential Equations and Hilbert Spaces covering most of the standard mathematical method tools in modern physics One of the purposes of the book is to show how seemingly different mathematical tools like for instance Fourier transforms eigenvalue problems special functions and so on are all deeply interconnected It contains a large number of examples problems and detailed solutions emphasising the main purpose of relating concrete physical examples with more formal mathematical aspects String Theory **Compactifications** Mariana Graña, Hagen Triendl, 2017-03-21 The lectures in this book provide graduate students and non specialist researchers with a concise introduction to the concepts and formalism required to reduce the ten dimensional string theories to the observable four dimensional space time a procedure called string compactification The text starts with a very brief introduction to string theory first working out its massless spectrum and showing how the condition on the number of dimensions arises It then dwells on the different possible internal manifolds from the simplest to the most relevant phenomenologically thereby showing that the most elegant description is through an extension of ordinary Riemannian geometry termed generalized geometry which was first introduced by Hitchin Last but not least the authors review open problems in string phenomenology such as the embedding of the Standard Model and obtaining de Sitter solutions Superstrings, P-branes and M-theory,

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