

An Introduction to
String Theory and
D-Brane Dynamics

With Problems and Solutions

2nd Edition



Richard J Szabo

Imperial College Press

An Introduction To String Theory And D Brane Dynamics

Julia Schneider



An Introduction To String Theory And D Brane Dynamics:

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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

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String Theory and Particle Physics Luis E. Ibáñez,Angel M. Uranga,2012-02-09 String theory is one of the most active branches of theoretical physics and has the potential to provide a unified description of all known particles and interactions This book is a systematic introduction to the subject focused on the detailed description of how string theory is connected to the real world of particle physics Aimed at graduate students and researchers working in high energy physics it provides explicit models of physics beyond the Standard Model No prior knowledge of string theory is required as all necessary material is provided in the introductory chapters The book provides particle phenomenologists with the information needed to understand string theory model building and describes in detail several alternative approaches to model building such as heterotic string compactifications intersecting D brane models D branes at singularities and F theory

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

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In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**An Introduction To String Theory And D Brane Dynamics**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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