



String Theory in a Nutshell

By *Elias Kiritsis*

Download now

Read Online 

String Theory in a Nutshell By Elias Kiritsis

This book is the essential new introduction to modern string theory, by one of the world's authorities on the subject. Concise, clearly presented, and up-to-date, *String Theory in a Nutshell* brings together the best understood and most important aspects of a theory that has been evolving since the early 1980s. A core model of physics that substitutes one-dimensional extended "strings" for zero-dimensional point-like particles (as in quantum field theory), string theory has been the leading candidate for a theory that would successfully unify all fundamental forces of nature, including gravity.

Starting with the basic definitions of the theory, Elias Kiritsis guides readers through classic and modern topics. In particular, he treats perturbative string theory and its Conformal Field Theory (CFT) tools in detail while also developing nonperturbative aspects and exploring the unity of string interactions. He presents recent topics including black holes, their microscopic entropy, and the AdS/CFT correspondence. He also describes matrix model tools for string theory. In all, the book contains nearly five hundred exercises for the graduate-level student, and works as a self-contained and detailed guide to the literature.

String Theory in a Nutshell is the staple one-volume reference on the subject not only for students and researchers of theoretical high-energy physics, but also for mathematicians and physicists specializing in theoretical cosmology and QCD.

 [Download String Theory in a Nutshell ...pdf](#)

 [Read Online String Theory in a Nutshell ...pdf](#)

String Theory in a Nutshell

By Elias Kiritsis

String Theory in a Nutshell By Elias Kiritsis

This book is the essential new introduction to modern string theory, by one of the world's authorities on the subject. Concise, clearly presented, and up-to-date, *String Theory in a Nutshell* brings together the best understood and most important aspects of a theory that has been evolving since the early 1980s. A core model of physics that substitutes one-dimensional extended "strings" for zero-dimensional point-like particles (as in quantum field theory), string theory has been the leading candidate for a theory that would successfully unify all fundamental forces of nature, including gravity.

Starting with the basic definitions of the theory, Elias Kiritsis guides readers through classic and modern topics. In particular, he treats perturbative string theory and its Conformal Field Theory (CFT) tools in detail while also developing nonperturbative aspects and exploring the unity of string interactions. He presents recent topics including black holes, their microscopic entropy, and the AdS/CFT correspondence. He also describes matrix model tools for string theory. In all, the book contains nearly five hundred exercises for the graduate-level student, and works as a self-contained and detailed guide to the literature.

String Theory in a Nutshell is the staple one-volume reference on the subject not only for students and researchers of theoretical high-energy physics, but also for mathematicians and physicists specializing in theoretical cosmology and QCD.

String Theory in a Nutshell By Elias Kiritsis Bibliography

- Rank: #227827 in Books
- Brand: Brand: Princeton University Press
- Published on: 2007-04-08
- Original language: English
- Number of items: 1
- Dimensions: 10.03" h x 1.69" w x 7.35" l, 3.06 pounds
- Binding: Hardcover
- 608 pages

 [Download String Theory in a Nutshell ...pdf](#)

 [Read Online String Theory in a Nutshell ...pdf](#)

Editorial Review

Review

"What sets this book apart from other recent and older texts on string theory is that, while providing the level of detail in the derivation of all central results that is necessary for an introductory textbook, Kiritsis maintains a brisk and steady pace, and also includes a colloquial discussion of new concepts at the beginning of every section."--**Johannes Walcher, *Mathematical Reviews***

From the Back Cover

"An excellent reference for any graduate student interested in string theory. Kiritsis succinctly describes many of the recent developments that are necessary background to current research. Topics covered include black holes in string theory, holography, various dualities among string theories, and dualities connecting string theory to gauge theories. The basic frameworks for connecting string theory to four-dimensional physics are also explained."--**Juan Maldacena, Institute for Advanced Study**

"This very well-written book, which builds on the fundamentals and provides an excellent introduction to the state of the art in string theory, will be quite useful to students and to researchers acquainting themselves with this exciting field. It concisely lays out the successes of string theory to date and the challenges that await. I have no doubt that the topics described herein will remain at the heart of the theory even when our understanding of its dynamics and its role in describing nature improve."--**David Kutasov, University of Chicago**

"There is a definite need for a short speedy introduction to modern string theory. Kiritsis beautifully fills this gap--including all essential areas, but remaining relatively concise, so that a beginning student can work through the entire text."--**Andrew Strominger, Harvard University**

"String theory textbooks are found on the bookshelves of not only those theoretical physicists who call themselves string theorists, but also others, and this book will appeal especially to this broader category of readers. More universal in its coverage than are comparable texts, it seeks to explain virtually all the issues whose knowledge becomes more or less necessary for every researcher in the field. Indeed, it squeezes all its material into less than 600 pages of well-defined, short sentences with a clear technical content--a nearly complete discussion of the subject that will be really useful to many experts and future experts."--**Luboř Motl, Harvard University**

About the Author

Elias Kiritsis is Directeur de Recherche at the CNRS, affiliated with the École Polytechnique in Paris, and Professor of Physics at the University of Crete.

Users Review

From reader reviews:

Brenda Gregg:

Do you have favorite book? For those who have, what is your favorite's book? Guide is very important thing for us to find out everything in the world. Each publication has different aim or goal; it means that guide has

different type. Some people experience enjoy to spend their time and energy to read a book. They are reading whatever they have because their hobby is reading a book. Think about the person who don't like reading through a book? Sometime, individual feel need book when they found difficult problem or maybe exercise. Well, probably you should have this String Theory in a Nutshell.

Barry Upshaw:

What do you think about book? It is just for students since they're still students or this for all people in the world, the actual best subject for that? Just simply you can be answered for that question above. Every person has various personality and hobby for every single other. Don't to be forced someone or something that they don't desire do that. You must know how great along with important the book String Theory in a Nutshell. All type of book could you see on many resources. You can look for the internet resources or other social media.

Frances Sitz:

Do you have something that you want such as book? The e-book lovers usually prefer to decide on book like comic, limited story and the biggest some may be novel. Now, why not striving String Theory in a Nutshell that give your fun preference will be satisfied by means of reading this book. Reading addiction all over the world can be said as the method for people to know world considerably better then how they react to the world. It can't be stated constantly that reading practice only for the geeky individual but for all of you who wants to be success person. So , for all of you who want to start studying as your good habit, you could pick String Theory in a Nutshell become your own starter.

Jaime McKenney:

Beside this kind of String Theory in a Nutshell in your phone, it could possibly give you a way to get more close to the new knowledge or data. The information and the knowledge you might got here is fresh from the oven so don't become worry if you feel like an previous people live in narrow commune. It is good thing to have String Theory in a Nutshell because this book offers for you readable information. Do you oftentimes have book but you rarely get what it's exactly about. Oh come on, that wil happen if you have this within your hand. The Enjoyable agreement here cannot be questionable, similar to treasuring beautiful island. Use you still want to miss the idea? Find this book and read it from at this point!

Download and Read Online String Theory in a Nutshell By Elias Kiritsis #GXJY873A4T9

Read String Theory in a Nutshell By Elias Kiritsis for online ebook

String Theory in a Nutshell By Elias Kiritsis Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read String Theory in a Nutshell By Elias Kiritsis books to read online.

Online String Theory in a Nutshell By Elias Kiritsis ebook PDF download

String Theory in a Nutshell By Elias Kiritsis Doc

String Theory in a Nutshell By Elias Kiritsis Mobipocket

String Theory in a Nutshell By Elias Kiritsis EPub

GXJY873A4T9: String Theory in a Nutshell By Elias Kiritsis