

Gauge Theory of elementary particle physics

By Ta-Pei Cheng, Ling-Fong Li

Download now

Read Online ➔

Gauge Theory of elementary particle physics By Ta-Pei Cheng, Ling-Fong Li

This is a practical introduction to the principal ideas in gauge theory and their applications to elementary particle physics. It explains technique and methodology with simple exposition backed up by many illustrative examples. Derivations, some of well known results, are presented in sufficient detail to make the text accessible to readers entering the field for the first time. The book focuses on the strong interaction theory of quantum chromodynamics and the electroweak interaction theory of Glashow, Weinberg, and Salam, as well as the grand unification theory, exemplified by the simplest SU(5) model. Not intended as an exhaustive survey, the book nevertheless provides the general background necessary for a serious student who wishes to specialize in the field of elementary particle theory. Physicists with an interest in general aspects of gauge theory will also find the book highly useful.

↓ [Download Gauge Theory of elementary particle physics ...pdf](#)

📄 [Read Online Gauge Theory of elementary particle physics ...pdf](#)

Gauge Theory of elementary particle physics

By Ta-Pei Cheng, Ling-Fong Li


Gauge Theory of elementary particle physics By Ta-Pei Cheng, Ling-Fong Li

This is a practical introduction to the principal ideas in gauge theory and their applications to elementary particle physics. It explains technique and methodology with simple exposition backed up by many illustrative examples. Derivations, some of well known results, are presented in sufficient detail to make the text accessible to readers entering the field for the first time. The book focuses on the strong interaction theory of quantum chromodynamics and the electroweak interaction theory of Glashow, Weinberg, and Salam, as well as the grand unification theory, exemplified by the simplest SU(5) model. Not intended as an exhaustive survey, the book nevertheless provides the general background necessary for a serious student who wishes to specialize in the field of elementary particle theory. Physicists with an interest in general aspects of gauge theory will also find the book highly useful.

Gauge Theory of elementary particle physics By Ta-Pei Cheng, Ling-Fong Li Bibliography

- Sales Rank: #1453188 in Books
- Brand: Brand: Oxford University Press, USA
- Published on: 1988-01-07
- Original language: English
- Number of items: 1
- Dimensions: 6.06" h x 1.25" w x 9.19" l, 1.71 pounds
- Binding: Paperback
- 548 pages

 [Download Gauge Theory of elementary particle physics ...pdf](#)

 [Read Online Gauge Theory of elementary particle physics ...pdf](#)

Editorial Review

Review

`The reader will find a concise review of diagrammatic perturbation theory, path-integral quantization, group theory, and renormalization theory. The more advanced concepts - gauge symmetry, chiral symmetry breaking, the Higgs mechanism, asymptotic freedom and the renormalization group - are treated in greater detail. The exposition of these subjects is judiciously combined with applications to the standard theory in a way that brings life to what otherwise might be dull formalism. [...] it will remain, for a long time to come, an excellent introduction to the comprehensive gauge theory of the electroweak and strong interactions.'

David Goss, Physics Today

From the Back Cover

This book provides students and researchers with a practical introduction to some of the principal ideas in gauge theories and their applications to elementary particle physics.

About the Author

Ta-Pei Cheng is at University of Missouri, St Louis. Ling-Fong Li is at Carnegie Mellon University.

Users Review

From reader reviews:

Dennis Fleenor:

Here thing why this kind of Gauge Theory of elementary particle physics are different and reliable to be yours. First of all studying a book is good however it depends in the content of the usb ports which is the content is as tasty as food or not. Gauge Theory of elementary particle physics giving you information deeper including different ways, you can find any reserve out there but there is no e-book that similar with Gauge Theory of elementary particle physics. It gives you thrill reading through journey, its open up your current eyes about the thing this happened in the world which is maybe can be happened around you. You can bring everywhere like in park your car, café, or even in your way home by train. If you are having difficulties in bringing the branded book maybe the form of Gauge Theory of elementary particle physics in e-book can be your option.

Mark Hernandez:

Information is provisions for folks to get better life, information today can get by anyone in everywhere. The information can be a understanding or any news even a huge concern. What people must be consider while those information which is within the former life are challenging be find than now's taking seriously which one would work to believe or which one typically the resource are convinced. If you get the unstable resource then you obtain it as your main information it will have huge disadvantage for you. All of those possibilities will not happen with you if you take Gauge Theory of elementary particle physics as your daily resource information.

Wendy Poston:

Hey guys, do you really want to find a new book to read? Maybe the book with the name Gauge Theory of elementary particle physics suitable to you? The particular book was written by renowned writer in this era. The actual book entitled Gauge Theory of elementary particle physics is the one of several books which everyone reads now. This kind of book has inspired many men and women in the world. When you read this guide you will enter the new dimensions that you never knew just before. The author explained their concept in a simple way, therefore all of people can easily be aware of the core of this guide. This book will give you a lot of information about this world now. To help you to see the representation of the world on this book.

Raymond Albanese:

A lot of guides have been printed but it is different. You can get it by net on social media. You can choose the most effective book for you, science, witty, novel, or whatever simply by searching for it. It is named the book Gauge Theory of elementary particle physics. You'll be able to increase your knowledge by it. Without causing the printed book, it could possibly add your knowledge and make anyone happier to read. It is most critical that, you must be aware about the guide. It can bring you from one destination to another place.

Download and Read Online Gauge Theory of elementary particle physics By Ta-Pei Cheng, Ling-Fong Li #V94FMKZ3GJU

Read Gauge Theory of elementary particle physics By Ta-Pei Cheng, Ling-Fong Li for online ebook

Gauge Theory of elementary particle physics By Ta-Pei Cheng, Ling-Fong Li 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 Gauge Theory of elementary particle physics By Ta-Pei Cheng, Ling-Fong Li books to read online.

Online Gauge Theory of elementary particle physics By Ta-Pei Cheng, Ling-Fong Li ebook PDF download

Gauge Theory of elementary particle physics By Ta-Pei Cheng, Ling-Fong Li Doc

Gauge Theory of elementary particle physics By Ta-Pei Cheng, Ling-Fong Li Mobipocket

Gauge Theory of elementary particle physics By Ta-Pei Cheng, Ling-Fong Li EPub

V94FMKZ3GJU: Gauge Theory of elementary particle physics By Ta-Pei Cheng, Ling-Fong Li