



## Compact Lie Groups (Graduate Texts in Mathematics)

By Mark R. Sepanski

Download now

Read Online 

**Compact Lie Groups (Graduate Texts in Mathematics)** By Mark R. Sepanski

Blending algebra, analysis, and topology, the study of compact Lie groups is one of the most beautiful areas of mathematics and a key stepping stone to the theory of general Lie groups. Assuming no prior knowledge of Lie groups, this book covers the structure and representation theory of compact Lie groups. Coverage includes the construction of the Spin groups, Schur Orthogonality, the Peter-Weyl Theorem, the Plancherel Theorem, the Maximal Torus Theorem, the Commutator Theorem, the Weyl Integration and Character Formulas, the Highest Weight Classification, and the Borel-Weil Theorem. The book develops the necessary Lie algebra theory with a streamlined approach focusing on linear Lie groups.

 [Download Compact Lie Groups \(Graduate Texts in Mathematics\) ...pdf](#)

 [Read Online Compact Lie Groups \(Graduate Texts in Mathematic ...pdf](#)

# Compact Lie Groups (Graduate Texts in Mathematics)

By Mark R. Sepanski

## Compact Lie Groups (Graduate Texts in Mathematics) By Mark R. Sepanski

Blending algebra, analysis, and topology, the study of compact Lie groups is one of the most beautiful areas of mathematics and a key stepping stone to the theory of general Lie groups. Assuming no prior knowledge of Lie groups, this book covers the structure and representation theory of compact Lie groups. Coverage includes the construction of the Spin groups, Schur Orthogonality, the Peter-Weyl Theorem, the Plancherel Theorem, the Maximal Torus Theorem, the Commutator Theorem, the Weyl Integration and Character Formulas, the Highest Weight Classification, and the Borel-Weil Theorem. The book develops the necessary Lie algebra theory with a streamlined approach focusing on linear Lie groups.

## Compact Lie Groups (Graduate Texts in Mathematics) By Mark R. Sepanski Bibliography

- Rank: #3101631 in Books
- Brand: Mark R Sepanski
- Published on: 2006-12-19
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x .56" w x 6.14" l, 1.06 pounds
- Binding: Hardcover
- 201 pages



[Download Compact Lie Groups \(Graduate Texts in Mathematics\) ...pdf](#)



[Read Online Compact Lie Groups \(Graduate Texts in Mathematic ...pdf](#)

## Download and Read Free Online Compact Lie Groups (Graduate Texts in Mathematics) By Mark R. Sepanski

---

### Editorial Review

#### Review

From the reviews:

"Groups serve to parameterize the symmetries of mathematical objects and the ways symmetries combine. ... offers students willing to take a few things on faith a vital vista on a subject they may wish to pursue at the graduate level. Summing Up: Recommended. Upper-division undergraduates through professionals." (D. V. Feldman, CHOICE, Vol. v4 (3), November, 2007)

"The representation theory of compact groups is an old and venerable subject. The problems and solutions are now well understood and serve as a guide for the more advanced parts of the representation theory. ... The present one is intended as a textbook within the reach of a good undergraduate student. ... The reading should be pleasant both for students and for teachers preparing a course on the subject." (David A. Renard, Mathematical Reviews, Issue 2008 a)

"This book offers an introduction to the theories of compact Lie groups and of Lie algebras, which is organized in an unusual way. ... For the ambitious reader many exercises are provided." (A. Cap, Monatshefte für Mathematik, Vol. 158 (2), October, 2009)

#### From the Back Cover

Blending algebra, analysis, and topology, the study of compact Lie groups is one of the most beautiful areas of mathematics and a key stepping stone to the theory of general Lie groups. Assuming no prior knowledge of Lie groups, this book covers the structure and representation theory of compact Lie groups. Included is the construction of the Spin groups, Schur Orthogonality, the Peter–Weyl Theorem, the Plancherel Theorem, the Maximal Torus Theorem, the Commutator Theorem, the Weyl Integration and Character Formulas, the Highest Weight Classification, and the Borel–Weil Theorem. The necessary Lie algebra theory is also developed in the text with a streamlined approach focusing on linear Lie groups.

#### Key Features:

- Provides an approach that minimizes advanced prerequisites
- Self-contained and systematic exposition requiring no previous exposure to Lie theory
- Advances quickly to the Peter–Weyl Theorem and its corresponding Fourier theory
- Streamlined Lie algebra discussion reduces the differential geometry prerequisite and allows a more rapid transition to the classification and construction of representations
- Exercises sprinkled throughout

This beginning graduate-level text, aimed primarily at Lie Groups courses and related topics, assumes familiarity with elementary concepts from group theory, analysis, and manifold theory. Students, research mathematicians, and physicists interested in Lie theory will find this text very useful.

## Users Review

### From reader reviews:

#### Kelley Thornton:

Book is actually written, printed, or highlighted for everything. You can learn everything you want by a e-book. Book has a different type. As it is known to us that book is important factor to bring us around the world. Alongside that you can your reading expertise was fluently. A e-book Compact Lie Groups (Graduate Texts in Mathematics) will make you to be smarter. You can feel more confidence if you can know about almost everything. But some of you think in which open or reading the book make you bored. It isn't make you fun. Why they can be thought like that? Have you trying to find best book or suitable book with you?

#### Earnest Jennings:

Do you one among people who can't read gratifying if the sentence chained inside the straightway, hold on guys this aren't like that. This Compact Lie Groups (Graduate Texts in Mathematics) book is readable by simply you who hate the perfect word style. You will find the data here are arrange for enjoyable examining experience without leaving perhaps decrease the knowledge that want to give to you. The writer involving Compact Lie Groups (Graduate Texts in Mathematics) content conveys thinking easily to understand by a lot of people. The printed and e-book are not different in the written content but it just different by means of it. So , do you nevertheless thinking Compact Lie Groups (Graduate Texts in Mathematics) is not loveable to be your top listing reading book?

#### Terrie Newlin:

Reading a reserve can be one of a lot of exercise that everyone in the world adores. Do you like reading book thus. There are a lot of reasons why people fantastic. First reading a book will give you a lot of new data. When you read a e-book you will get new information mainly because book is one of a number of ways to share the information or even their idea. Second, reading a book will make anyone more imaginative. When you looking at a book especially fictional works book the author will bring you to imagine the story how the figures do it anything. Third, you could share your knowledge to some others. When you read this Compact Lie Groups (Graduate Texts in Mathematics), you can tells your family, friends as well as soon about yours e-book. Your knowledge can inspire the mediocre, make them reading a guide.

#### Bruce Harrison:

A lot of e-book has printed but it is different. You can get it by online on social media. You can choose the most beneficial book for you, science, comedian, novel, or whatever by simply searching from it. It is identified as of book Compact Lie Groups (Graduate Texts in Mathematics). You can contribute your knowledge by it. Without leaving behind the printed book, it can add your knowledge and make an

individual happier to read. It is most important that, you must aware about reserve. It can bring you from one location to other place.

**Download and Read Online Compact Lie Groups (Graduate Texts in Mathematics) By Mark R. Sepanski #C2QM0S4P7ZW**

# **Read Compact Lie Groups (Graduate Texts in Mathematics) By Mark R. Sepanski for online ebook**

Compact Lie Groups (Graduate Texts in Mathematics) By Mark R. Sepanski 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 Compact Lie Groups (Graduate Texts in Mathematics) By Mark R. Sepanski books to read online.

## **Online Compact Lie Groups (Graduate Texts in Mathematics) By Mark R. Sepanski ebook PDF download**

**Compact Lie Groups (Graduate Texts in Mathematics) By Mark R. Sepanski Doc**

**Compact Lie Groups (Graduate Texts in Mathematics) By Mark R. Sepanski MobiPocket**

**Compact Lie Groups (Graduate Texts in Mathematics) By Mark R. Sepanski EPub**

**C2QM0S4P7ZW: Compact Lie Groups (Graduate Texts in Mathematics) By Mark R. Sepanski**