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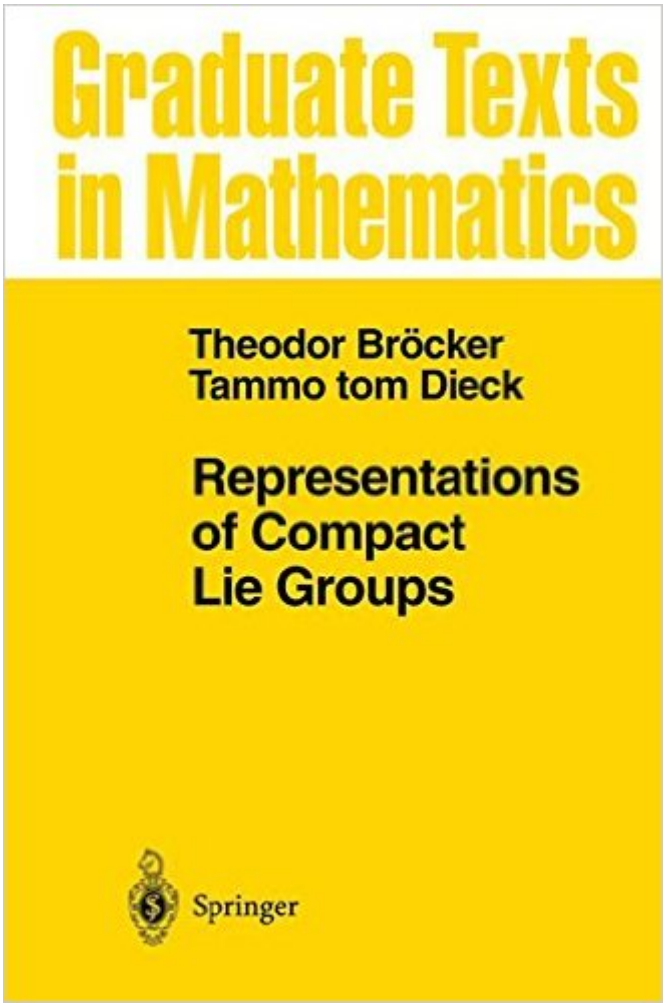
Representations Of Compact Lie Groups (Graduate Texts In Mathematics)



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Synopsis

This introduction to the representation theory of compact Lie groups follows Herman Weylâ ™s original approach. It discusses all aspects of finite-dimensional Lie theory, consistently emphasizing the groups themselves. Thus, the presentation is more geometric and analytic than algebraic. It is a useful reference and a source of explicit computations. Each section contains a range of exercises, and 24 figures help illustrate geometric concepts.

Book Information

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Customer Reviews

Most lie groups books fall into one of two categories: geometrically motivated ones, and algebraically motivated ones. I prefer the former. If you’re perfectly happy with a more algebraic treatment, read no further.There aren’t very many geometrically flavored books on lie groups; I can think of only this one and "Compact lie groups" by Sepanski. His book has a nicer treatment of harmonic analysis, but this one beats his in almost every other respect. Sepanski is often too concise.Still, this book has a long way to go to be really great. Though you’re not assumed to have a prior knowledge of lie groups (just smooth manifold theory), you’re going to crash and burn without it. That’s why I suggest John Lee’s Introduction to Smooth Manifolds before taking on this book. It has the best preparation in elementary lie groups you’ll ever hope to find. It’ll prepare you for Brocker and Dieck. Even then, the book isn’t incredibly well written.In short, there is no really well-written text on lie groups from a geometric perspective, but this one’s the best there is. I hope

someone writes a better one eventually.

As much as the content is great, the print quality is outrageous. This edition is a photocopy of the original printing, and it's hard to read. Surprised by the fact that Springer couldn't be bothered to even digitise the text.

Good start book for Rep. theory if you want to start with an analytic way. This book is NEW, no mark at all!

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