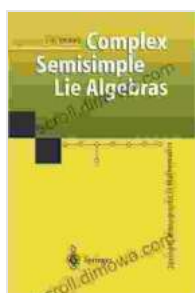


Complex Semisimple Lie Algebras: An Introduction to the Theory and Its Applications

This book provides a comprehensive and self-contained to the theory of complex semisimple Lie algebras, focusing on their classification, structure, and applications in physics and mathematics. The author presents the main results in a clear and accessible way, starting from the basics and gradually developing the theory to its most advanced parts. The book includes numerous examples and applications, as well as a wealth of exercises and problems to help readers deepen their understanding of the subject.



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★★★★☆ 4.6 out of 5

Language : English

File size : 1997 KB

Text-to-Speech : Enabled

Print length : 88 pages

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Table of Contents

-
- Basic Concepts
- The Cartan Subalgebra and the Root System

- The Weyl Group
- The Classification of Semisimple Lie Algebras
- Representation Theory
- Applications in Physics
- Applications in Mathematics

Audience

This book is intended for graduate students and researchers in mathematics and physics who are interested in learning about Lie algebras. It is also suitable for use as a textbook for a graduate course on Lie algebras.

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"This book is a welcome addition to the literature on Lie algebras. It provides a comprehensive and self-contained to the theory of complex semisimple Lie algebras, focusing on their classification, structure, and applications in physics and mathematics. The author presents the main results in a clear and accessible way, starting from the basics and gradually developing the theory to its most advanced parts. The book includes numerous examples and applications, as well as a wealth of exercises and problems to help readers deepen their understanding of the subject." -

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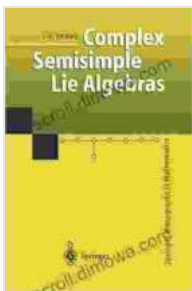
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Author

The author of this book is Dr. James Humphreys, a professor of mathematics at the University of Massachusetts Amherst. He is a leading expert in the theory of Lie algebras, and he has written several other books on the subject, including *Lie Algebras and Representation Theory* and *Linear Algebraic Groups*.

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