Dictionary of Lie Algebras and Superalgebras

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This book is a detailed reference on Lie algebras and Lie superalgebras presented in the form of a dictionary. It is intended to be useful to mathematical and theoretical physicists, from the level of the graduate student upwards. The Dictionary will serve as the reference of choice for practitioners and students alike.

Key Features:

* Compiles and presents material currently scattered throughout numerous textbooks and specialist journal articles

* Dictionary format provides an easy to use reference on the essential topics concerning Lie algebras and Lie superalgebras

* Covers the structure of Lie algebras and Lie superalgebras and their finite dimensional representation theory

* Includes numerous tables of the properties of individual Lie algebras and Lie superalgebras

The Dictionary is aimed at theoretical physicists who use continuous symmetries, particularly elementary particle physicists, from the phenomenologist to the mathematical physicist. The beginner will be able to discover the main concepts of algebras and superalgebras. Experienced theorists will find the necessary tools and information for specific applications. It is also appropriate supplementary reading for postgraduate courses: including Symmetries in Physics, Advanced Quantum Mechanics, Elementary Particle Physics, Nuclear Physics, Field Theory, Statistical Mechanics and Quantum Optics.

作者介绍:

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评论

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