

理论物理学数学透视

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Presenting the basics of mathematics that are needed for learning the physics of today, this book describes briefly the theories of groups and operators, finite- and infinite-dimensional algebras, concepts of symmetry and supersymmetry. It then delineates their relations to theories of relativity and black holes, classical and quantum physics, electroweak fields and Yang-Mills. It concludes with a chapter on (the complex theory of) strings and superstrings and their link to black holes - an idea that fascinates both the physicist and the mathematician.

作者介绍:

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