<<量子引力>>

图书基本信息

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内容概要

This book is about only one approach to the subject - loop quantum gravity. It is a subject of considerable technical difficulty, and the literature devoted to it is a formidable one. This feature alone has hindered the cross-fertilization which is, as delineated above, so essential for progress. However, within these pages one will find a much more accessible description of the subject, put forward by one of its leading architects and deepest thinkers. The existence of such a fine book will allow this important subject, quite likely to contribute significantly to the unknown ultimate theory, to be assimilated by a much larger community of the-orists. If this does indeed come to pass, its publication will become one of the most important developments in this very active subfield since its onset.

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书籍目录

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编辑推荐

《量子引力》由世界图书出版公司出版。
Quantum gravity poses the problem of merging quantum mechanics and general relativity, the two great conceptual revolutions in the physics of the twentieth century. The loop and spinfoam approach, presented in this book, is one of the leading research programs in the field. The first part of the book discusses the reformulation of the basis of classical and quantum Hamiltonian physics required by general relativity. The second part covers the basic technical research directions. Appendices include a detailed history of the subject of quantum gravity, hard-to-find mathematical material, and a discussion of some philosophical issues raised by the subject. This fascinating text is ideal for graduate students entering the field, as well as researchers already working in quantum gravity. It will also appeal to philosophers and other scholars interested in the nature of space and time.

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