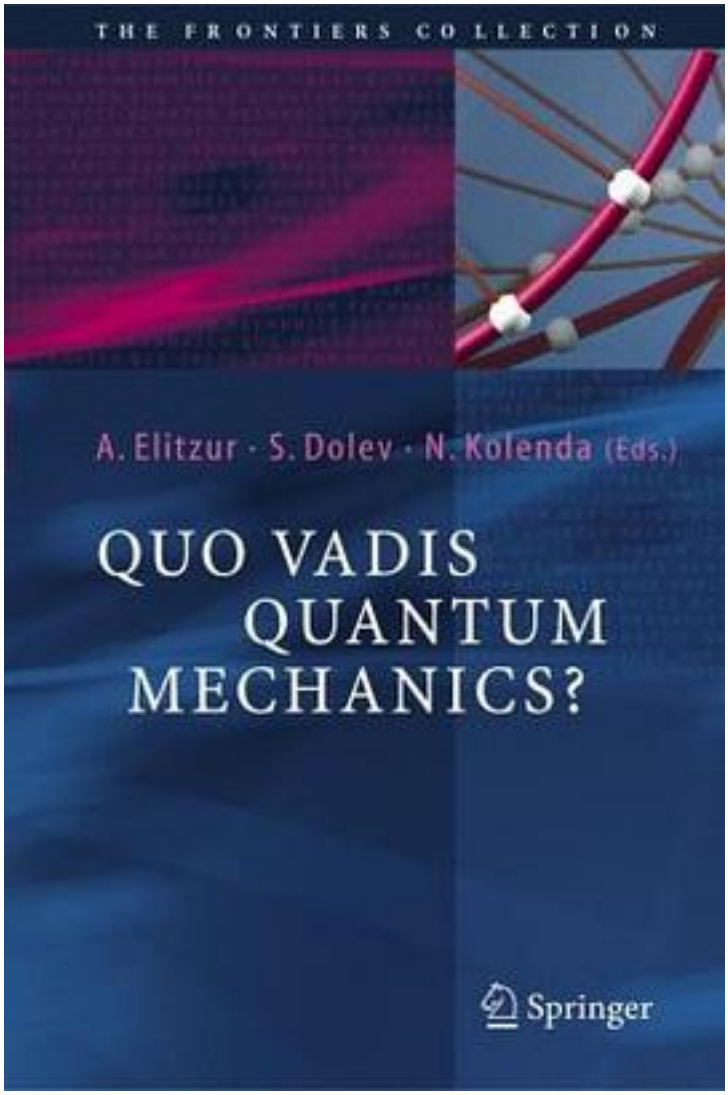
Quo Vadis Quantum Mechanics?



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著者:Kolenda, Nancy 编

出版者:Springer Verlag

出版时间:

装帧:HRD

isbn:9783540221883

For more than a century, quantum mechanics has served as a very powerful theory that has expanded physics and technology far beyond their classical limits, yet it has also produced some of the most difficult paradoxes known to the human mind. This book represents the combined efforts of sixteen of today's most eminent theoretical physicists to lay out future directions for quantum physics. The authors include Yakir Aharonov, Anton Zeilinger; the Nobel laureates Anthony Leggett and Geradus 't Hooft; Basil Hiley, Lee Smolin and Henry Stapp. Following a foreword by Roger Penrose, the individual chapters address questions such as quantum non-locality, the measurement problem, quantum insights into relativity, cosmology and thermodynamics, and the possible bearing of quantum phenomena on biology and consciousness.

作者介绍:

目录: Front Matter
Pages I-XIV
What Is the Measurement Problem Anyway? Introductory Reflections on Quantum Puzzles
A. C. Elitzur
Pages 1-5
Radically Quantum: Liberation and Purification from Classical Prejudice
Hans-Peter Dürr
Pages 7-45
Quantum Physics as a Science of Information
aslav Brukner, Anton Zeilinger
Pages 47-61
Quantum Theory Looks at Time Travel
Daniel M. Greenberger, Karl Svozil
Pages 63-71
What Connects Different Interpretations of Quantum Mechanics?
James B. Hartle
Pages 73-82
Is Quantum Mechanics the Whole Truth?
A. J. Leggett
Pages 83-90
Roundtable Discussion I: Physical Theories, Present and Future
Pages 91-98
Determinism Beneath Quantum Mechanics
Gerard’ t Hooft
Pages 99-111
Relational Quantum Mechanics
Carlo Rovelli
Pages 113-120
Matrix Models as Non-Local Hidden Variables Theories
Lee Smolin
Pages 121-152
Towards a General Operational and Realistic Framework for Quantum Mechanics and Relativity Theory
Diederik Aerts, Sven Aerts
Pages 153-207
What is Probability?
Simon Saunders

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