

图书基本信息

书名：<<霍金与大爆炸理论及黑洞HAWKING ON THE BIG BANG AND BLACK HOLES>>

13位ISBN编号：9789810210786

10位ISBN编号：9810210787

出版时间：1993-1

出版时间：World Scientific Publishing Co Pte Ltd

作者：Hawking, Stephen

页数：312

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

## 内容概要

作者简介：Stephen Hawking, the Lucasian Professor of Mathematics at Cambridge University, is widely regarded as one of the most brilliant theoretical physicists of our time. This book contains a personal selection of his most significant papers on gravitational theory applied to cosmology and black holes. His early work, partly in collaboration with Roger Penrose, showed that spacetime must come to an end at singularities that will occur both in the Big Bang and in black holes. This means that time will have a beginning and an end. Hawking's later work has been concerned with understanding these two situations. This requires a combination of the two great theories of the first half of the twentieth century: general relativity and quantum mechanics. Although a completely unified theory remains elusive, Hawking has been able to make considerable progress both with black hole radiation and with the no-boundary proposal for the origin of the universe. This compilation of Stephen Hawking's most important works, complete with an introduction by him, is an essential collector's item and an important source of reference for theoretical physicists. It bears testimony to the courage of a man who has overcome severe physical disability to push the frontiers of science to new heights.

书籍目录

- Introduction
1. The Singularities of Gravitational Collapse and Cosmology (with R. Penrose) Proc. Roy. Soc. A314, 529 (1970)
  2. The Event Horizon From Black Holes, eds. Dewitt and Dewitt (Gordon and Breach, 1973)
  3. The Four Laws of Black Hole Mechanics (with J. M. Bardeen and B. Carter) Commun. Math. Phys. 31, 161 (1973)
  4. Particle Creation by Black Holes Commun. Math. Phys. 33,323 (1973)
  5. Action Integrals and Partition Functions in Quantum Gravity (with G. Gibbons) Phys. Rev. D15, 2725 (1977)
  6. Breakdown of Predictability in Gravitational Collapse Phys. Rev. D14, 2460 (1976)
  7. Evaporation of Two-Dimensional Black Holes Phys. Rev. Lett. 69,406-409 (1992)
  8. Cosmological Event Horizons, Thermodynamics, and Particle Creation (with G. Gibbons) Phys. Rev. D15, 2738 (1977)
  9. The Development of Irregularities in a Single Bubble Inflationary Universe Phys. Lett. B115, 295-297 (1982)
  10. Zeta Function Regularization of Path Integrals in Curved Spacetime Commun. Math. Phys. 56, 133 (1977)
  11. The Path-Integral Approach to Quantum Gravity From General Relativity: An Einstein Centenary Survey, ed. with W. Israel (Cambridge University Press, 1979)
  12. Wave Function of the Universe (with J. B. Hartle) Phys. Rev. D28, 2960-2975 (1983)
  13. Quantum Cosmology From Relativity Groups and Topology, Les Houches Lectures, eds. B. Dewitt and R. Stora (North-Holland, 1984)
  14. Origin of Structure in the Universe (with J. J. Halliwell) Phys. Rev. D31, 8 (1985)
  15. Arrow of Time in Cosmology Phys. Rev. D32, 2489 (1985)
  16. The No-Boundary Proposal and the Arrow of Time From Physical Origins of Time Asymmetry, eds. J. J. Halliwell, J. Perez-Mercader and W. H. Zurek (Cambridge Univ. Press, 1992)
  17. The Cosmological Constant is Probably Zero Phys. Lett. B134, 403 (1984)
  18. Wormholes in Spacetime Phys. Rev. D37, 904 (1988)
  19. Do Wormholes Fix the Constants of Nature? Nucl. Phys. B335, 155-165 (1990)
  20. Selection Rules for Topology Change (with G. Gibbons) Commun. Math. Phys. 148,345-352 (1992)
  21. Chronology Protection Conjecture Phys. Rev. D46, 603-611 (1992)

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>