Black Holes: An Introduction (2nd Revised edition)

By Derek Raine, Edwin Thomas

Imperial College Press. Paperback. Book Condition: new. BRAND NEW, Black Holes: An Introduction (2nd Revised edition), Derek Raine, Edwin Thomas, This introduction to the fascinating subject of black holes fills a significant gap in the literature which exists between popular, non-mathematical expositions and advanced textbooks at the research level. It is designed for advanced undergraduates and first year postgraduates as a useful stepping-stone to the advanced literature. The book provides an accessible introduction to the exact solutions of Einstein's vacuum field equations describing spherical and axisymmetric (rotating) black holes. The geometry and physical properties of these spacetimes are explored through the motion of particles and light. The use of different coordinate systems, maximal extensions and Penrose diagrams is explained. The association of the surface area of a black hole with its entropy is discussed and it is shown that with the introduction of quantum mechanics black holes cease to be black and can radiate. This result allows black holes to satisfy the laws of thermodynamics and thus be consistent with the rest of physics. In this new edition the problems in each chapter have been revised and solutions are provided. The text has been expanded to include new material on...

DOWNLOAD PDF

READ ONLINE
[9.02 MB]

Reviews

This pdf is wonderful. We have go through and so i am certain that i am going to going to study yet again once more in the future. Its been developed in an exceedingly straightforward way which is merely after i finished reading through this pdf where really transformed me, modify the way i think.
-- Ollie Balistreri

These kinds of pdf is the greatest ebook accessible. It is one of the most amazing ebook i have got go through. Your life span will likely be transform once you comprehensive reading this article publication.
-- Santa Lowe

DMCA Notice | Terms