



The Large Scale Structure of Space-Time (Paperback)

By S. W. Hawking, G. F. R. Ellis

CAMBRIDGE UNIVERSITY PRESS, United Kingdom, 1975. Paperback. Condition: New. Revised ed.. Language: English . Brand New Book ***** Print on Demand *****. Einstein s General Theory of Relativity leads to two remarkable predictions: first, that the ultimate destiny of many massive stars is to undergo gravitational collapse and to disappear from view, leaving behind a black hole in space; and secondly, that there will exist singularities in space-time itself. These singularities are places where space-time begins or ends, and the presently known laws of physics break down. They will occur inside black holes, and in the past are what might be construed as the beginning of the universe. To show how these predictions arise, the authors discuss the General Theory of Relativity in the large. Starting with a precise formulation of the theory and an account of the necessary background of differential geometry, the significance of space-time curvature is discussed and the global properties of a number of exact solutions of Einstein s field equations are examined. The theory of the causal structure of a general space-time is developed, and is used to study black holes and to prove a number of theorems establishing the inevitability of singularities under certain...



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