



# **Spacetime: Foundations of General Relativity and Differential Geometry (Lecture Notes in Physics Monographs)**

*Marcus Kriele*

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One of the most exciting aspects of general relativity is the prediction of black holes and the Big Bang. Such predictions gained weight through the theorems of Penrose and Hawking, which showed that singularities are inevitable under certain conditions. In various books on general relativity, these theorems are presented and used to argue that black holes exist and that the universe started with a bang. To date, what has been a critical analysis of these theorems is lacking. We really need a proof of a typical singularity theorem and this book uses such a theorem to illustrate problems arising through the "possibilities of violations" and "causality weak" shell crossing singularities. These singularities add to the problems of view that the point theorems alone are not sufficient to predict physical singularities. The mathematical theme of the book is to both solidify and gain a good intuition for any mathematical theory, one should realise it as a model of a familiar non-mathematical theory. Physical theories, especially the important ones, have had a great impact on the development of mathematics, conversely, various modern physical theories require sophisticated mathematics for their formulation. Today, physics is so complex that it is often difficult to master the theories in both subjects. However, differential pseudo-Riemannian geometry or the general relativity relationship with physics is and it is therefore especially close, to from interdisciplinary approach.

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