

1. Record Nr.	UNINA9910151932503321
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Titolo	The Cauchy Problem in General Relativity [[electronic resource] /] / Hans Ringstrom
Pubbl/distr/stampa	Zuerich, Switzerland, : European Mathematical Society Publishing House, 2009
ISBN	3-03719-553-3
Descrizione fisica	1 online resource (307 pages)
Collana	ESI Lectures in Mathematics and Physics (ESI)
Classificazione	83-xx
Soggetti	Differential equations Relativity and gravitational theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>The general theory of relativity is a theory of manifolds equipped with Lorentz metrics and fields which describe the matter content. Einstein's equations equate the Einstein tensor (a curvature quantity associated with the Lorentz metric) with the stress energy tensor (an object constructed using the matter fields). In addition, there are equations describing the evolution of the matter. Using symmetry as a guiding principle, one is naturally led to the Schwarzschild and Friedmann-Lemaitre-Robertson-Walker solutions, modelling an isolated system and the entire universe respectively. In a different approach, formulating Einstein's equations as an initial value problem allows a closer study of their solutions. This book first provides a definition of the concept of initial data and a proof of the correspondence between initial data and development. It turns out that some initial data allow non-isometric maximal developments, complicating the uniqueness issue. The second half of the book is concerned with this and related problems, such as strong cosmic censorship. The book presents complete proofs of several classical results that play a central role in mathematical relativity but are not easily accessible to those wishing to enter the subject. Prerequisites are a good knowledge of basic measure and integration theory as well as the fundamentals of Lorentz geometry. The necessary background from the theory of partial</p>

differential equations and Lorentz geometry is included.

2. Record Nr.	UNISA996204831303316
Titolo	Learning and instruction [[e-journal]]
Pubbl/distr/stampa	Oxford ; ; New York, : Elsevier Science, 1991-
ISSN	1873-3263
Soggetti	Learning Teaching Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Title from contents screen (ScienceDirect, viewed Mar. 9, 2007). Some issues also have distinctive titles. Refereed/Peer-reviewed
Sommario/riassunto	"Learning and Instruction is an international, multi-disciplinary journal that provides a platform for the publication of the most advanced high-quality research in the areas of learning, development, instruction and teaching."