

1. Record Nr.	UNISA996466690303316
Autore	Bona Carles
Titolo	Elements of Numerical Relativity and Relativistic Hydrodynamics [[electronic resource]] : From Einstein' s Equations to Astrophysical Simulations // by Carles Bona, Carlos Palenzuela-Luque, Carles Bona-Casas
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2009
ISBN	1-280-38488-3 9786613562807 3-642-01164-0
Edizione	[2nd ed. 2009.]
Descrizione fisica	1 online resource (XIV, 214 p. 108 illus.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 783
Classificazione	UD 8220
Disciplina	530.11
Soggetti	Astrophysics Mathematical physics Gravitation Physics Computer mathematics Astrophysics and Astroparticles Theoretical, Mathematical and Computational Physics Classical and Quantum Gravitation, Relativity Theory Numerical and Computational Physics, Simulation Computational Science and Engineering Mathematical Methods in Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	The 4D Spacetime -- The Evolution Formalism -- Free Evolution -- First-Order Hyperbolic Systems -- Numerical Methods -- Black Hole Simulations -- Matter Spacetimes.
Sommario/riassunto	Many large-scale projects for detecting gravitational radiation are currently being developed, all with the aim of opening a new window onto the observable Universe. As a result, numerical relativity has recently become a major field of research, and Elements of Numerical

Relativity and Relativistic Hydrodynamics is a valuable primer for both graduate students and non-specialist researchers wishing to enter the field. A revised and significantly enlarged edition of LNP 673 Elements of Numerical Relativity, this book starts with the most basic insights and aspects of numerical relativity before it develops coherent guidelines for the reliable and convenient selection of each of the following key aspects: evolution formalism; gauge, initial, and boundary conditions; and various numerical algorithms. And in addition to many revisions, it includes new, convenient damping terms for numerical implementations, a presentation of the recently-developed harmonic formalism, and an extensive, new chapter on matter space-times, containing a thorough introduction to relativistic hydrodynamics. While proper reference is given to advanced applications requiring large computational resources, most tests and applications in this book can be performed on a standard PC. From the Reviews of the 1st edition I am glad to recommend this book to anyone interested in an introduction into this field." Bela Szilagy, (Mathematical Reviews, Issue 2007 b).

2. Record Nr.	UNINA9910715044303321
Autore	Kappel William M.
Titolo	Statewide assessment of karst aquifers in New York with an Inventory of closed-depression and focused-recharge features // by William M. Kappel, James E. Reddy, and Jonathan C. Root ; prepared in cooperation with the New York State Department of Environmental Conservation
Pubbl/distr/stampa	Reston, Virginia : , : U.S. Department of the Interior, U.S. Geological Survey, , 2020
Descrizione fisica	1 online resource (vii, 24 pages) : color illustrations, color maps
Collana	Scientific investigations report ; ; 2020-5030
Soggetti	Aquifers - New York (State) Karst - New York (State) Groundwater recharge - New York (State)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

