1. Record Nr. UNINA9910450680103321

Titolo	Open issues in core collapse supernova theory [[electronic resource] /] / editors, Anthony Mezzacappa, George M. Fuller
Pubbl/distr/stampa	Hackensack, N.J., : World Scientific, c2005
ISBN	1-281-90581-X 9786611905811 981-270-344-6
Descrizione fisica	1 online resource (475 p.)
Collana	Proceedings from the Institute for Nuclear Theory ; ; v. 14
Altri autori (Persone)	MezzacappaAnthony FullerGeorge Michael
Disciplina	523.8/4465
Soggetti	Supernovae - Mathematical models Cataclysmic variable stars Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"National Institute for Nuclear Theory, University of Washington, Seattle, 22-24 June 2004."
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	PREFACE; CONTENTS; Section 1 Overview; Section 2 Fundamental Issues in Radiation Magnet ohydrodynamics; Section 3 The Core Collapse Supernova Mechanism; Section 4 Neutrino Mixing; Section 5 Neutrino Interactions; Section 6 The Equation of State; Section 7 Nucleosynthesis and Light Curves
Sommario/riassunto	Efforts to uncover the explosion mechanism of core collapse supernovae and to understand all of their associated phenomena have been ongoing for nearly four decades. Despite this, our theoretical understanding of these cosmic events remains limited; two- and three-dimensional modeling of these events is in its infancy. Most of the modeling efforts over the past four decades have, by necessity, been constrained to spherical symmetry, with the first two-dimensional, albeit simplified, models appearing only during the last decade. Simulations to understand the complex interplay between the turbul