1. Record Nr. UNINA9910777055303321

Titolo	The universe in X-rays [[electronic resource] /] / Joachim E. Trumper, Gunther Hasinger (eds.)
Pubbl/distr/stampa	Berlin ; ; New York, : Springer, c2008
ISBN	1-281-20628-8 9786611206284 3-540-34412-8
Edizione	[1st ed. 2008.]
Descrizione fisica	1 online resource (498 p.)
Collana	Astronomy and astrophysics library, , 0941-7834
Altri autori (Persone)	HasingerGunther TruemperJ <1933-> (Joachim)
Disciplina	522.6863
Soggetti	Astronomy X-ray astronomy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	X-Ray Astronomical Instrumentation -- Overview -- Proportional Counters -- Scintillation Counters -- Imaging Proportional Counters -- Aperture Modulation Telescopes -- Wolter Optics -- CCD Detectors -- High Resolution Spectroscopy -- Galactic X-Ray Astronomy -- Solar System Objects -- Nuclear Burning Stars -- White Dwarfs -- X-Ray Emission of Cataclysmic Variables and Related Objects -- Classical Novae -- Pulsars and Isolated Neutron Stars -- Accreting Neutron Stars -- Black-Hole Binaries -- X-Ray Studies of Supernovae and Supernova Remnants -- The Interstellar Medium -- The Galactic Center -- Extragalactic X-Ray Astronomy -- X-Rays from Nearby Galaxies -- X-Ray Flares in the Cores of Galaxies -- Active Galactic Nuclei -- X-Ray Studies of Clusters of Galaxies -- Gamma-Ray Bursts -- Cosmic X-Ray Background -- The Future.
Sommario/riassunto	In the last 45 years, X-ray astronomy has become an integral part of modern astrophysics and cosmology. There is a wide range of astrophysical objects and phenomena, where X-rays provide crucial diagnostics. In particular they are well suited to study hot plasmas and matter under extreme physical conditions in compact objects. This book summarizes the present status of X-ray astronomy in terms of

	observational results and their astrophysical interpretation. It is written for students, astrophysicists as well a growing community of physicists interested in the field. An introduction including historical material is followed by chapters on X-ray astronomical instrumentation. The next two parts summarize in 17 chapters the present knowledge on various classes of X-ray sources in the galactic and extragalactic realm. While the X-ray astronomical highlights discussed in this book are mainly based on results from ROSAT, ASCA, RXTE, BeppoSAX, Chandra and XMM-Newton, a final chapter provides an outlook on observational capabilities and projects discussed for the future.

2. Record Nr. UNINA9910151563503321

Autore	Schuck Peter <1965, >
Titolo	Sedimentation velocity analytical ultracentrifugation : discrete species and size-distributions of macromolecules and particles / / Peter Schuck
Pubbl/distr/stampa	Boca Raton, Fla. : , : CRC Press, Taylor & Francis Group, , [2016] ©2016
ISBN	1-315-35012-2 0-367-87828-3 1-315-36723-8
Edizione	[1st ed.]
Descrizione fisica	1 online resource (267 pages)
Disciplina	572
Soggetti	Ultracentrifugation Macromolecules - Analysis Nanoparticles - Analysis Sedimentation analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter 1. Basic analysis principles -- Chapter 2. Sedimentation of discrete non-interacting particles -- Chapter 3. Properties of sedimentation coefficient distributions -- Chapter 4. Distributions of non-diffusing particles -- Chapter 5. Distributions of diffusing particles -- Chapter 6. Sedimentation coefficient distributions from

	boundary derivatives and extrapolations -- Chapter 7. Multi-component distributions -- Chapter 8. Practical analysis of non-interacting systems.
Sommario/riassunto	The analysis of sedimentation velocity analytical ultracentrifugation has fundamentally changed in the last two decades, with the ability to solve the master equation of the sedimentation/diffusion process and the application of modern mathematical data analysis strategies substantially increasing hydrodynamic resolution of sedimenting particles. This book provides a systematic introduction to the theory of sedimentation velocity, and a comprehensive overview of experimental design strategies and data analysis. Areas of major focus are polydisperse macromolecules and nanoparticles, and the sedimentation of systems of reversibly interacting macromolecules, including protein interactions--