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Titolo	The Fundamentals of Modern Astrophysics : A Survey of the Cosmos from the Home Planet to Space Frontiers // by Mikhail Ya Marov
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Descrizione fisica	1 online resource (347 p.)
Disciplina	520 523.4 530
Soggetti	Astronomy Astrophysics Planetology Astronomy, Astrophysics and Cosmology Popular works.
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	The Solar System -- The Terrestrial Planets -- The Giant Planets -- Small Bodies -- The Sun and Heliosphere -- Stars: Birth, Lifetime, and Death -- Extrasolar Planets -- Planetary Systems: Origin and Evolution -- Astrobiology: Basic Concepts -- The Structure of the Universe -- Cosmology: The Origin and Fate of the Universe -- Conclusions -- Additional Reading.
Sommario/riassunto	The Fundamentals of Modern Astrophysics provides an overview of the modern science of astrophysics. It covers the Sun, Solar System bodies, exoplanets, stars, and star life cycle, planetary systems origin and evolution, basics of astrobiology, our galaxy the Milky Way, other galaxies and galactic clusters, a general view of the Universe, its structure, evolution and fate, modern views and advanced models of cosmology as well as the synergy of micro- and macro physics, standard model, superstring theory, multiversality and worm holes. The main concepts of modern astrophysics and prospects for future studies are accompanied by numerous illustrations and a summary of the advanced projects at various astronomical facilities and space missions.

Dr. Marov guides readers through a maze of complicated topics to demystify the field and open its wonders to all.

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