

1.	Record Nr.	UNINA9910481903903321
	Autore	Clifford M. (Martin) <1677.>
	Titolo	Verhandelinge van de menschelke reden. [By Martin Clifford]. Translated from the French [[electronic resource]]
	Pubbl/distr/stampa	Rotterdam, : Isaac Naeranus, 1683
	Descrizione fisica	Online resource (12°)
	Lingua di pubblicazione	Olandese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Reproduction of original in Koninklijke Bibliotheek, Nationale bibliotheek van Nederland.
2.	Record Nr.	UNINA9910878049303321
	Autore	Benenti Sergio
	Titolo	Mathematical Foundations and Numerical Analysis of the Dynamics of an Isotropic Universe / / by Sergio Benenti
	Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
	ISBN	9783031640339 9783031640322
	Edizione	[1st ed. 2024.]
	Descrizione fisica	1 online resource (160 pages)
	Disciplina	530.11
	Soggetti	Mathematical physics Numerical analysis Geometry Dynamics Cosmology Theoretical, Mathematical and Computational Physics Numerical Analysis Dynamical Systems
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia

Nota di contenuto

1. Geometry of the cosmic space-time -- 2. Bridge-postulates -- 3. Relativistic cosmic dynamics -- 4. Numerical cosmology -- 5. Signal transmission and visibility -- 6. Cosmic redshift -- 7. Appendices.

Sommario/riassunto

This book is an enhanced and expanded English edition of the treatise “Fondamenti matematici e analisi numerica della dinamica di un Universo isotropo,” published by the Accademia delle Scienze di Torino in volume no. 42-43, 2018-2019. The book summarizes some of the principal findings from a long-term cosmology research project, aiming to clarify significant results through clear mathematical postulates. Despite efforts, a single mathematical model accurately describing the universe’s evolution remains elusive due to early universe complexity and numerous observational parameters. Over the past century, various models have been proposed and discarded, illustrated by debates on the cosmological constant and spatial curvature assumptions. Currently, many models lack clear foundations, causing confusion in the field. Standard cosmological approaches rely on principles like Weyl’s principle, homogeneity, and isotropy, but may overlook discerning purely geometrical properties from those dependent on field equations. This book aims to bring order to cosmology by starting from understandable mathematical postulates, leading to theorems. Disagreements on postulates can prompt adjustments or alternative approaches. Physics often consists of deductive theories lacking explicit delineation of underlying concepts and postulates, a criticism relevant to cosmological theories. Despite a late 1990s consensus on the Lambda cold dark matter model, the absence of a logical-deductive structure in literature complicates understanding, leading some to humorously dub it the “expanding Universe and expanding confusion.”
