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Nota di bibliografia	Includes bibliographical references (p. 455-466) and index.
Nota di contenuto	Why CMB Physics; Electromagnetic Emission of the Observable Universe; From CMB to the Standard Cosmological Model; Problems with the Standard Cosmological Model (SCM); Beyond the SCM; Essentials of Inflationary Dynamics; Inhomogeneities in FRW Models; The First Lap in CMB Anisotropies; Improved Fluid Description of Pre-Decoupling Physics; Kinetic Hierarchies of Multipole Moments; Early Initial Conditions; Surfing on the Gauges; Interacting Fluids; Spectator Fields; Appendices: The Concept of Distance in Cosmology; Kinetic Description of Hot Plasmas; Scalar Modes of the Geometry; Metric Fluctuations: Gauge Independent Treatment.
Sommario/riassunto	This title addresses the general motivations and principles that inspire modern searches of a common lore in gravitation, cosmology and high energy physics.