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Edizione	[First edition.]
Descrizione fisica	1 online resource (181 pages) : illustrations
Collana	Series in Astronomy and Astrophysics
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Soggetti	Cosmology
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	part SECTION I: Physics -- chapter 1 Particle physics -- chapter 2 Curved spacetime -- chapter 3 General Relativity -- part SECTION II: The Big Bang -- chapter 4 The present Universe -- chapter 5 A first look at the history -- chapter 6 Energy density of the Universe -- chapter 7 Thermal equilibrium -- chapter 8 Friedmann equation -- chapter 9 The geometry of the Universe -- chapter 10 Newtonian perturbations -- chapter 11 Relativistic perturbations -- chapter 12 Scalar perturbations -- chapter 13 Baryon acoustic oscillation -- chapter 14 CMB anisotropy -- chapter 15 Galaxy formation -- part SECTION III: Inflation -- chapter 16 Scalar fields: Classical theory -- chapter 17 Quantum theory of a free field -- chapter 18 Inflation -- chapter 19 Perturbations from inflation -- chapter 20 Prehistory of the Big Bang.
Sommario/riassunto	Written by an award-winning cosmologist, this brand new textbook provides advanced undergraduate and graduate students with coverage of the very latest developments in the observational science of cosmology. The book is separated into three parts; part I covers particle physics and general relativity, part II explores an account of the

known history of the universe, and part III studies inflation. Full treatment of the origin of structure, scalar fields, the cosmic microwave background and the early universe are provided.
