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Titolo	Cosmological Crossroads : An Advanced Course in Mathematical, Physical and String Cosmology // edited by Spiros Cotsakis, Eleftherios Papantonopoulos
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Collana	Lecture Notes in Physics, , 0075-8450 ; ; 592
Disciplina	523.1
Soggetti	Gravitation Physics Quantum field theory String theory Classical and Quantum Gravitation, Relativity Theory Mathematical Methods in Physics Quantum Field Theories, String Theory
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	History and Overview -- Is Nature Generic? -- Evolution of Ideas in Modern Cosmology -- Mathematical Cosmology -- Constraints and Evolution in Cosmology -- Cosmological Singularities -- Exact Cosmological Solutions -- to Cosmological Dynamical Systems -- Astrophysical and Observational Cosmology -- The Quest for the Cosmological Parameters -- Modern Cosmological Observations -- Cosmological Perturbations -- Dark Matter: A Particle Theorist's Viewpoint -- Particle and String Cosmology -- An Introduction to Particle Physics -- Quantum Cosmology -- Inflationary Cosmology -- String Cosmology -- Brane Cosmology.
Sommario/riassunto	This book has grown out of lectures held at a summer school on cosmology, in response to an ever increasing need for an advanced textbook that addresses the needs of both postgraduate students and nonspecialist researchers from various disciplines ranging from mathematical physics to observational astrophysics. Bridging the gap

between standard textbook material in cosmology and the forefront of research, this book also constitutes a modern source of reference for the experienced researcher in classical and quantum cosmology.
