1. Record Nr. UNINA9910461236903321

Autore	Ellis George F. R (George Francis Rayner)
Titolo	Relativistic cosmology / / George F.R. Ellis, Roy Maartens, Malcolm A.H. MacCallum [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2012
ISBN	1-107-22398-9 1-139-63572-7 1-280-87757-X 9786613718884 1-139-22188-4 1-139-21706-2 1-139-22359-3 1-139-21399-7 1-139-22016-0 1-139-01440-4
Descrizione fisica	1 online resource (xiv, 622 pages) : digital, PDF file(s)
Disciplina	523.1
Soggetti	Cosmology Relativistic astrophysics Relativistic quantum theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Part I. Foundations: 1. The nature of cosmology; 2. Geometry; 3. Classical physics and gravity -- Part II. Relativistic Cosmological Models: 4. Kinematics of cosmological models; 5. Matter in the Universe; 6. Dynamics of cosmological models; 7. Observations in cosmological models; 8. Light-cone approach to relativistic cosmology -- Part III. The Standard Model and Extensions: 9. Homogeneous FLRW universes; 10. Perturbations of FLRW universes; 11. The cosmic background radiation; 12. Structure formation and gravitational lensing; 13. Confronting the Standard Model with observations; 14. Acceleration from dark energy or modified gravity; 15. 'Acceleration' from large scale inhomogeneity?; 16. 'Acceleration' from small scale

inhomogeneity? -- Part IV. Anisotropic and Inhomogeneous Models: 17. The space of cosmological models; 18. Spatially homogeneous anisotropic models; 19. Inhomogeneous models -- Part V. Broader Perspective: 20. Quantum gravity and the start of the universe; 21. Cosmology in a larger setting; 22. Conclusion: our picture of the universe.

Sommario/riassunto

Cosmology has been transformed by dramatic progress in high-precision observations and theoretical modelling. This book surveys key developments and open issues for graduate students and researchers. Using a relativistic geometric approach, it focuses on the general concepts and relations that underpin the standard model of the Universe. Part I covers foundations of relativistic cosmology whilst Part II develops the dynamical and observational relations for all models of the Universe based on general relativity. Part III focuses on the standard model of cosmology, including inflation, dark matter, dark energy, perturbation theory, the cosmic microwave background, structure formation and gravitational lensing. It also examines modified gravity and inhomogeneity as possible alternatives to dark energy. Anisotropic and inhomogeneous models are described in Part IV, and Part V reviews deeper issues, such as quantum cosmology, the start of the universe and the multiverse proposal. Colour versions of some figures are available at www.cambridge.org/9780521381154.

2. Record Nr. UNINA9911020181103321

Titolo	Mechanical behavior of concrete / / edited by Jean-Michel Torrenti, Gilles Pijaudier-Cabot, Jean-Marie Reynouard
Pubbl/distr/stampa	London, U.K., : ISTE Hoboken, N.J., : Wiley, 2010
ISBN	9781118557587 1118557581 9781118622308 1118622308 9781299315631 1299315631 9781118622353 1118622359
Descrizione fisica	1 online resource (433 p.)
Collana	ISTE
Altri autori (Persone)	TorrentiJean-Michel ReynouardJean-Marie Pijaudier-CabotGilles
Disciplina	624.1/834
Soggetti	Concrete - Analysis Concrete - Curing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	First published 2004 and 2005 in France by Hermes Science/Lavoisier in two volumes entitled: Comportement du beton au jeune age and Comportement mecanique du beton.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	pt. 1. Instantaneous or time-independent models for concrete -- pt. 2. Concrete under cyclic and dynamic loading -- pt. 3. Time-dependent response of concrete.
Sommario/riassunto	This title provides a comprehensive overview of all aspects of the mechanical behavior of concrete, including such features as its elastoplasticity, its compressive and tensile strength, its behavior over time (including creep and shrinkage, cracking and fatigue) as well as modeling techniques and its response to various stimuli. As such, it will be required reading for anyone wishing to increase their knowledge in

this area.