An Introduction to Mathematical Mathematical Cosmology

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J. N. Islam

Mathematical Cosmology An Introduction

Ronald Howland

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Mathematical Cosmology Peter Theodore Landsberg, David A. Evans, 1979 An Introduction to Mathematical **Cosmology** Jamal N. Islam, 2002 An introductory textbook on mathematical cosmology for beginning graduate students Mathematical Cosmology Peter Theodore Landsberg, 1977 An Introduction to Mathematical Cosmology J. N. Islam, 2001-11-22 This book provides a concise introduction to the mathematical aspects of the origin structure and evolution of the universe The book begins with a brief overview of observational and theoretical cosmology along with a short introduction of general relativity It then goes on to discuss Friedmann models the Hubble constant and deceleration parameter singularities the early universe inflation quantum cosmology and the distant future of the universe This new edition contains a rigorous derivation of the Robertson Walker metric It also discusses the limits to the parameter space through various theoretical and observational constraints and presents a new inflationary solution for a sixth degree potential This book is suitable as a textbook for advanced undergraduates and beginning graduate students It will also be of interest to cosmologists astrophysicists applied mathematicians and mathematical physicists Theoretical Foundations of Cosmology Micha? Heller, 1992 The book s principal aim is to clarify fundamental concepts decipher mathematical structures used to model space time and relativistic worlds and to disclose their physical meaning After each chapter philosophical implications of the presented material are commented upon Both special and general theories of relativity are presented in the book with the stress on their global aspects Although global mathematical methods are extensively used throughout the book the definitions of new concepts short comments and examples make reading smooth without the need to consult other An Introduction to Mathematical Cosmology Ronald Howland, 2018-01-10 This book is textbooks or review papers suitable as a textbook for advanced undergraduates and beginning graduate students It will also be of interest to cosmologists astrophysicists applied mathematicians and mathematical physicists The book begins with a brief overview of observational and theoretical cosmology along with a short introduction of general relativity It then goes on to discuss Friedmann models the Hubble constant and deceleration parameter singularities the early universe inflation quantum cosmology and the distant future of the universe Introduction to General Relativity, Black Holes, and Cosmology Yvonne Choquet-Bruhat, 2015 A precise yet simple introduction to the foundations and main consequences of General Relativity The first five chapters from Choquet Bruhat's General Relativity and the Einstein Equations 2008 have been updated with new sections and chapters on black holes gravitational waves singularities and more to form this textbook An Introduction to Tensor Calculus Derek F. Lawden, 2012-03-07 This elementary introduction pays special attention to aspects of tensor calculus and relativity that students tend to find most difficult Its use of relatively unsophisticated mathematics in the early chapters allows readers to develop their confidence within the framework of Cartesian coordinates before undertaking the theory of tensors in curved spaces and its application to general relativity theory Topics include the special principle of

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monopoles instantons spin structure and spin connections Many paragraphs have been rewritten and examples and exercises added to ease the study of several chapters The index includes over 130 entries Spacetime and Geometry Sean M. Carroll,2019-08-08 Spacetime and Geometry is an introductory textbook on general relativity specifically aimed at students Using a lucid style Carroll first covers the foundations of the theory and mathematical formalism providing an approachable introduction to what can often be an intimidating subject Three major applications of general relativity are then discussed black holes perturbation theory and gravitational waves and cosmology Students will learn the origin of how spacetime curves the Einstein equation and how matter moves through it the geodesic equation They will learn what black holes really are how gravitational waves are generated and detected and the modern view of the expansion of the universe A brief introduction to quantum field theory in curved spacetime is also included A student familiar with this book will be ready to tackle research level problems in gravitational physics

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