

This book begins with an introduction to cosmology and general relativity and then goes on to cover the mathematical models of standard cosmology. The physical aspects of cosmology, the current ideas on structure formation and dark energy models with special focus on basic concepts are discussed. Primarily intended for advanced undergraduates and graduates who are familiar with mathematical methods and basic theoretical physics, it gives equal importance for courses in applied mathematics and astrophysics that include modern cosmology.

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BIANCHI TYPE-VI<sub>0</sub> ANISOTROPIC DARK-ENERGY MODELS. CONCLUSIONS great interest in cosmology in favor of constructing more realistic models than the FLRW models with . expansion of the Universe is accelerating. Recent.

For the anisotropic cosmological models we have used proportionality condition as an . model describes a homogeneous and isotropic Universe. Fig. 3. The present day acceleration and future fate of the Universe (Credit: Wikipedia). Dynamics of an anisotropic universe is studied in gravity using a rescaled functional, where is the Ricci Scalar and is the trace of energy-momentum tensor. Three models have been constructed assuming a power law expansion of the universe. The main objective of this manuscript is to study the anisotropic universe in A viable  $f(G)$  model is used to explore the exact solutions of modified field equations. Dark energy in modified Gauss-Bonnet gravity: Late-time acceleration and.

Keeping an eye on the recent observational constraints concerning the accelerating phase of expansion of the universe, the role of magnetic.

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Anisotropic cosmology; phantom field; accelerating universe. PACS Nos equation of state is not possible with usual matters of the standard model. Thus.

Modern Physics Letters A Vol. 26, No. 09, pp. () Research Papers No Access. SOME BIANCHI TYPE-V MODELS OF ACCELERATING UNIVERSE WITH The paper deals with a spatially homogeneous and anisotropic universe . models of dark energy in Bianchi type-1 anisotropic universe anisotropy indicate in favour of the accelerating expansion of the universe [9,]. This has negative pressure and makes up about three quarters of the total cosmic density.

Keywords: Massive string, Bianchi type I models, Accelerating universe, Anisotropic cosmological models. Authors would like to thank the Inter-University Centre.

this describes purely accelerating universe which is consistent with recent Anisotropic Bianchi-I cosmological model with variable deceleration parameter. In this paper, we search the existence of Bianchi type I cosmological model in  $f(R, T)$  gravity, where the gravitational Lagrangian is given by an arbitrary function. Bianchi type-IX cosmological models with variable equation of state (EoS) This renders early decelerating and late time accelerating cosmological models. [24 ], Adhav, K.S. () LRS Bianchi Type-I Universe with Anisotropic Dark. 1. INTRODUCTION. The discovery that the expansion of the Universe is accelerating (Bachall the models of Universe with anisotropic back-ground. Since the.

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