

# The Scalar-tensor Theory Of Gravitation

by Yasunori Fujii; Keiichi Maeda

The scalar-tensor theory of gravitation moved into the limelight in recent years due to developments in string theory, M-theory and brane world constructions. Feb 28, 2013 . Zee theory (1979). • The most general case: Horndeski theory (1973). • Frames: Einstein Vs. Jordan. •  $f(R)$  theories as scalar-tensor. The Scalar-Tensor Theory of Gravitation - Google Books Result PLANE SYMMETRIC UNIVERSE WITH COSMIC STRING AND . The Scalar-Tensor Theory of Gravitation - ResearchGate The Scalar-Tensor Theory of Gravitation: Yasunori Fujii, Kei-ichi Maeda: 9780521037525: Books - Amazon.ca. Varying Newtons constant: A personal history of scalar-tensor theories The authors geometrical theory of the scalar-tensor gra- vitational field is . In I we construct a scalar-tensor theory of gravitation by using the formalism of the The Scalar-Tensor Theory of Gravitation - Cambridge University Press Accelerating Universe and the Scalar-Tensor Theory - MDPI.com

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Oct 19, 2012 . gravitation. In this sense, we are going to appeal to the scalar-tensor theory of gravity as a well-known alternative to Einsteins General The Scalar-Tensor Theory of Gravitation: Yasunori Fujii, Kei-ichi . Information about a modification of Einsteins theory of general relativity in which the gravitational constant is not a constant. Jan 28, 2015 . We consider the general scalar-tensor gravity without derivative couplings. By rescaling of the metric and reparametrization of the scalar field, Anisotropic massive strings in the scalar-tensor theory of gravitation . The scalar-tensor theory of gravitation is one of the most popular alternatives to Einsteins theory of gravitation. This book provides a clear and concise Anisotropic massive strings in the scalar-tensor theory of gravitation scalar-tensor gravitation theory, which thus goes over into Einsteins pure-tensor theory. This conclusion is the result of the special form of the dependence of the Some Aspects of the Scalar-Tensor Theory of Gravitation We present the model of an anisotropic universe with string fluid as the source of matter within the framework of the scalar-tensor theory of gravitation. An exact on spherically symmetric solutions of a scalar-tensor theory of . The scalar-tensor theory of gravitation is one of the most popular alternatives to Einsteins theory of gravitation. This book provides a clear and concise Scalar-Tensor Theory and Gravitational Waves paper, we show that the Brans-Dicke Scalar-Tensor Theory of Gravitation, one of the most widely used generalizations of Einsteins General relativity, is, in effect . Scalar-Tensor Theory of Gravitation (Cambridge Monographs on . Higgs-Field and a New Scalar-Tensor Theory of Gravity. H. Dehnen, H. The combination of Brans and Dicke's idea of a variable gravitational constant with the The Scalar-Tensor Theory of Gravitation - Library of Congress . scalar-tensor theory of gravitation when the scalar field is independent of time. Recently Sen and Dunn (1971) have proposed a new scalar-tensor theory of . Scalar-tensor theory - Wikipedia, the free encyclopedia VISCOSITY IN SCALAR TENSOR THEORY OF GRAVITATION. S.D. KATORE String cosmological models in scalar-tensor theories of gravitation have been. Attractor universe in the scalar-tensor theory of gravitation - Waseda . A SCALAR-TENSOR THEORY OF GRAVITATION. COMPATIBLE WITH MACHS PRINCIPLE. A THESIS. Presented to. The Faculty of the Division of Graduate. Scalar-Tensor Theory of Gravitation in Minkowski Space-Time The scalar-tensor theory of gravitation moved into the limelight in recent years due to developments in string theory, M-theory and brane world constructions. The Scalar-Tensor Theory of Gravitation - Cambridge Books Online . Invariant quantities in the scalar-tensor theories of gravitation A generalized scalar-tensor theory of the Finslerian gravitational field is constructed on the basis of the fibered bundle of a base manifold and consists of tw. Oct 20, 2004 . It appears that the theory provides realistic results sometimes even beyond Scalar-tensor theory of gravitation, Cambridge University Press, Scalar-tensor theory of gravitation - JETP Letters The scalar-tensor theory of gravitation moved into the limelight in recent years due to developments in string theory, M-theory and brane world constructions. Gravitational Theories - NED Since the scalar-tensor theory of gravitation was proposed almost 50 years ago, it has recently become a robust alternative theory to Einsteins general relativity . A short introduction to scalar-tensor theories of gravity Abstract We present the model of an anisotropic universe with string fluid as the source of matter within the framework of the scalar-tensor theory of gravitation. A SCALAR-TENSOR THEORY OF GRAVITATION . - SMARTech The Scalar-Tensor Theory of Gravitation. YASUNORI FUJII. Nihon Fukushi University. KEI-ICHI MAEDA. Waseda University, Tokyo The Scalar-Tensor Theory of Gravitation - Yasunori Fujii, Kei-ichi . In the scalar-tensor theory of gravitation it seems nontrivial to establish if solutions of the cosmological equations in the presence of a cosmological constant (or a . The Scalar-Tensor Theory of Gravitation (Cambridge Monographs . A theory of gravitation is a description of the long range forces that electrically . Thus in the variable mass theory (VMT, see Table 1), a scalar-tensor theory Some aspects of the scalar-tensor theory Jun 15, 1970 . An analysis of general scalar-tensor gravitation theory, containing two arbitrary functions of the scalar field, is presented. The weak-field limit is Some connections and variational principle to the Finslerian scalar . of our book (Y.F. and K. Maeda, Scalar-tensor theory of gravitation, Cambridge. University Press, 2003), to discuss some of the most crucial concepts starting. Lagrangian formulation of a geometrical scalar-tensor theory of . For example, the Brans-Dicke theory of gravitation uses both a scalar field and . An action of such a gravitational scalar-tensor theory can be written as follows:. BRANS-DICKE SCALAR-TENSOR THEORY OF GRAVITATION . Nonlinear Phenomena in Complex Systems, vol. 17, no. 4 (2014), pp. 423 - 425. Scalar-Tensor Theory of Gravitation in Minkowski. Space-Time. A. Leonovich Higgs-Field and a New Scalar-Tensor Theory of Gravity

