

1. Record Nr.	UNINA9910450098503321
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Titolo	The scalar-tensor theory of gravitation / / Yasunori Fujii, Kei-ichi Maeda [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2003
ISBN	1-107-13269-X 0-521-03752-2 1-280-41957-1 9786610419579 0-511-17850-6 0-511-14881-X 0-511-30573-7 0-511-53509-0 0-511-04518-2
Descrizione fisica	1 online resource (xv, 240 pages) : digital, PDF file(s)
Collana	Cambridge monographs on mathematical physics
Disciplina	531/.14
Soggetti	Gravitation
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 (p. 230-236) and index.
Nota di contenuto	Prototype Brans-Dicke model -- Conformal transformation -- Cosmology with lambda -- Models of an accelerating universe -- Quantum effects.
Sommario/riassunto	The scalar-tensor theory of gravitation is one of the most popular alternatives to Einstein's theory of gravitation. This book provides a clear and concise introduction to the theoretical ideas and developments, exploring scalar fields and placing them in context with a discussion of Brans-Dicke theory. Topics covered include the cosmological constant problem, time variability of coupling constants, higher dimensional space-time, branes and conformal transformations. The authors emphasize the physical applications of the scalar-tensor theory and thus provide a pedagogical overview of the subject, keeping more mathematically detailed sections for the appendices. This book is suitable for graduate courses in cosmology, gravitation and relativity. It

will also provide a valuable reference for researchers.
