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Nota di contenuto	Chapter 1. Einstein gravity and the need for its modification -- Chapter 2. Modifications of the pure gravitational sector -- Chapter 3. Scalar-tensor gravities -- Chapter 4. Vector-tensor gravities -- Chapter 5. Horava-Lifshitz gravity -- Chapter 6. Nonlocal gravity -- Chapter 7. Summary.
Sommario/riassunto	This book reviews various modified gravity models, including those with modifications in the pure gravitational sector; those involving extra fields, that is, scalar-tensor and vector-tensor gravity theories; gravity models with Lorentz symmetry breaking; and nonlocal gravity models. The authors discuss both classical and quantum aspects of these theories. The book is unique in bringing together all the current alternatives to Einstein gravity in one source and serves as an excellent starting point for graduate students and other newcomers seeking an overview. This second edition has been expanded with new results from a variety of approaches including $f(R,Q,P)$ gravity, galileon gravity and massive gravity. Extended discussions of Lorentz-breaking terms

and of non-local field theory have been added and a completely new chapter is devoted to models based on non-Riemannian geometry.

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