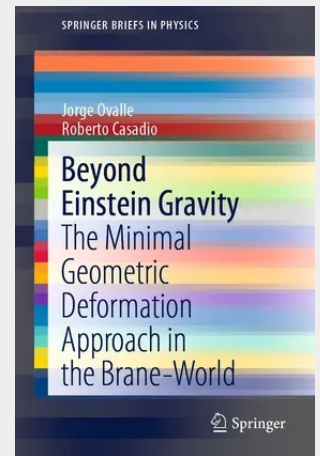


Beyond Einstein Gravity

The Minimal Geometric Deformation Approach in the Brane-World

This book serves two main purposes: firstly, it shows, in a simple way, how the possible existence of an extra-spatial dimension would affect the predictions of four-dimensional General Relativity, a model known as the Brane world; secondly, it explains, step-by-step, a new technique called *Minimal Geometric Deformation*, which was introduced for the purpose of solving the correspondingly modified Einstein field equations. This method gave rise to the *Gravitational Decoupling in General Relativity*, which is widely used to solve the Einstein field equations in various contexts.

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