



# Einstein's General Theory of Relativity: With Modern Applications in Cosmology

*Øyvind Grøn, Sigbjørn Hervik*

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**Einstein's General Theory of Relativity: With Modern Applications in Cosmology** Øyvind Grøn, Sigbjørn Hervik

This book introduces the general theory of relativity and includes applications to cosmology. The book provides a thorough introduction to tensor calculus and curved manifolds. After the necessary mathematical tools are introduced, the authors offer a thorough presentation of the theory of relativity. Also included are some advanced topics not previously covered by textbooks, including Kaluza-Klein theory, Israel's formalism and branes. Anisotropic cosmological models are also included. The book contains a large number of new exercises and examples, each with separate headings. The reader will benefit from an updated introduction to general relativity including the most recent developments in cosmology.

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