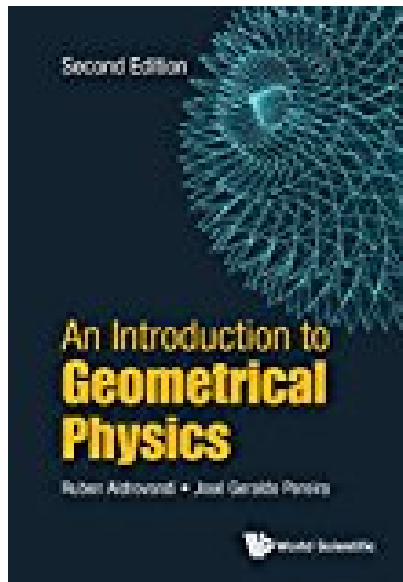


Introduction to Geometrical Physics an Second Edition



BOOK DETAILS

- Author : Jose Geraldo Pereira
- Pages : 844 Pages
- Publisher : World Scientific Publishing Company
- Language : English
- ISBN : 9813146818



BOOK SYNOPSIS

This book stresses the unifying power of the geometrical framework in bringing together concepts from the different areas of physics. Common underpinnings of optics, elasticity, gravitation, relativistic fields, particle mechanics and other subjects are underlined. It attempts to extricate the notion of space currently in the physical literature from the metric connotation. The book's goal is to present mathematical ideas associated with geometrical physics in a rather introductory language. Included are many examples from elementary physics and also, for those wishing to reach a higher level of understanding, a more advanced treatment of the mathematical topics. It is aimed as an elementary text, more so than most others on the market, and is intended for first year graduate students.

Contents: Manifolds Differentiable Structure Final Touch Mathematical Topics Physical Topics Glossary References Alphabetic Index Readership: Mathematical physicists.

keywords: Manifolds; Differential Geometry; Differential

Forms; Symmetries; Variational Calculus; Hamiltonian

Mechanics; Elasticity; Relativistic Fields; Gauge Fields; General Relativity

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