

Variational Principles in Physics



[Variational Principles in Physics_下载链接1_](#)

著者:Basdevant, Jean-Louis

出版者:Springer Verlag

出版时间:2006-12

装帧:HRD

isbn:9780387377476

Variational principles have proven to be surprisingly fertile. For example, Fermat used variational methods to demonstrate that light follows the fastest route from one point to another, an idea which came to be a cornerstone of geometrical optics. This book explains variational principles and charts their use throughout modern physics. It examines the analytical mechanics of Lagrange and Hamilton, the basic tools of any physicist. The book also offers simple but rich first impressions of Einstein's General Relativity, Feynman's Quantum Mechanics, and more that reveal amazing interconnections between various fields of physics.

作者介绍:

目录: Foreword.- Variational Principles.- The Analytical Mechanics of Lagrange.- The Canonical Formalism of Hamilton.- The Lagrangian Theory of Fields.- Movement in a Curved Space.- Feynman's Path Integrals in Quantum Mechanics.- Solutions to Exercises.- Bibliography.- Index
• • • • • [\(收起\)](#)

[Variational Principles in Physics 下载链接1](#)

标签

数学

评论

[Variational Principles in Physics 下载链接1](#)

书评

It is quite a succinct introduction book about variational technique in almost all the

traditional fields in physics. Simple examples and excercises are given. It is a very suitable for students who have finished all the advanced physical courses. Of cours...

[Variational Principles in Physics 下载链接1](#)