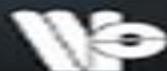


INTRODUCTION TO THE CALCULUS OF VARIATIONS

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store energy are always present in real systems They remove energy from the systems and as a consequence Noether's conservation laws cease to be valid However it is still possible to obtain the validity of Noether's principle using FCV The new theory provides a more realistic approach to physics allowing us to consider non conservative systems in a natural way The authors prove the necessary Euler Lagrange conditions and corresponding Noether theorems for several types of fractional variational problems with and without constraints using Lagrangian and Hamiltonian formalisms Sufficient optimality conditions are also obtained under convexity and Leitmann's direct method is discussed within the framework of FCV The book is self contained and unified in presentation It may be used as an advanced textbook by graduate students and ambitious undergraduates in mathematics and mechanics It provides an opportunity for an introduction to FCV for experienced researchers The explanations in the book are detailed in order to capture the interest of the curious reader and the book provides the necessary background material required to go further into the subject and explore the rich research literature a

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The American Mathematical Monthly, 1911 Includes section Recent publications

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7000-7999, Social sciences, 8000-8999, Natural sciences; 9000-9999, Technology Princeton University. Library, 1920

Calculus of Variations I Mariano Giaquinta, Stefan Hildebrandt, 2004-06-23 This two volume treatise is a standard reference in the field It pays special attention to the historical aspects and the origins partly in applied problems such as those of geometric optics of parts of the theory It contains an introduction to each chapter section and subsection and an overview of the relevant literature in the footnotes and bibliography It also includes an index of the examples used throughout the book

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