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though most of the preliminaries are also recalled in the appendix

Calculus of Variations Robert Weinstock, 2012-04-26
 This book by Robert Weinstock was written to fill the need for a basic introduction to the calculus of variations. Simply and easily written with an emphasis on the applications of this calculus, it has long been a standard reference of physicists, engineers, and applied mathematicians. The author begins slowly, introducing the reader to the calculus of variations and supplying lists of essential formulae and derivations. Later chapters cover isoperimetric problems, geometrical optics, Fermat's principle, dynamics of particles, the Sturm-Liouville eigenvalue eigenfunction problem, the theory of elasticity, quantum mechanics, and electrostatics. Each chapter ends with a series of exercises which should prove very useful in determining whether the material in that chapter has been thoroughly grasped. The clarity of exposition makes this book easily accessible to anyone who has mastered first-year calculus with some exposure to ordinary differential equations. Physicists and engineers who find variational methods evasive at times will find this book particularly helpful. I regard this as a very useful book which I shall refer to frequently in the future. J. L. Synge, *Bulletin of the American Mathematical Society*

The Calculus of Variations N. I. Akhiezer, 1988-01-01
 An authoritative text on the calculus of variations for first-year graduate students. From a study of the simplest problem, it goes on to cover Lagrangian derivatives, Jacobi's condition, and field theory. Devotes considerable attention to direct methods and the Sturm-Liouville problem in a finite interval. Contains numerous interesting and challenging exercises plus five appendices on important results, generalizations, and applications of the material.

Introduction to the Calculus of Variations Bernard Dacorogna, 2004
 Serves as an excellent introduction to the calculus of variations. Useful to researchers in different fields of mathematics who want to get a concise but broad introduction to the subject. Includes more than 70 exercises with solutions.

A Course in the Calculus of Variations Filippo Santambrogio, 2023-12-17
 This book provides an introduction to the broad topic of the calculus of variations. It addresses the most natural questions on variational problems and the mathematical complexities they present. Beginning with the scientific modeling that motivates the subject, the book then tackles mathematical questions such as the existence and uniqueness of solutions, their characterization in terms of partial differential equations, and their regularity. It includes both classical and recent results on one-dimensional variational problems as well as the adaptation to the multi-dimensional case. Here, convexity plays an important role in establishing semi-continuity results and connections with techniques from optimization, and convex duality is even used to produce regularity results. This is then followed by the more classical Hlder regularity theory for elliptic PDEs and some geometric variational problems on sets, including the isoperimetric inequality and the Steiner tree problem. The book concludes with a chapter on the limits of sequences of variational problems expressed in terms of convergence. While primarily designed for master's level and advanced courses, this textbook, based on its author's instructional experience, also offers original insights that may be of interest to PhD students and researchers. A foundational understanding of measure theory and functional analysis is required, but all the essential concepts are reiterated throughout.

the book using special memo boxes 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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