

Calculus of Variations

A branch of mathematics that is a sort of generalization of [calculus](#). Calculus of variations seeks to find the path, curve, surface, etc., for which a given [function](#) has a [stationary value](#) (which, in physical problems, is usually a [minimum](#) or [maximum](#)). Mathematically, this involves finding [stationary values](#) of integrals of the form

$$I = \int_a^b f(y, \dot{y}, x) dx. \quad (1)$$

I has an extremum only if the [Euler-Lagrange differential equation](#) is satisfied, i.e., if

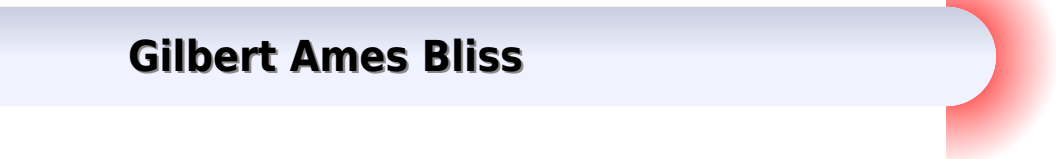
$$\frac{\partial f}{\partial y} - \frac{d}{dx} \left(\frac{\partial f}{\partial \dot{y}} \right) = 0. \quad (2)$$

The [fundamental lemma of calculus of variations](#) states that, if

$$\int_a^b M(x) h(x) dx = 0 \quad (3)$$

The Calculus Of Variations The Calculus Of Variations

Gilbert Ames Bliss



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Introduction to the Calculus of Variations Hans Sagan, 2012-04-26 Provides a thorough understanding of calculus of variations and prepares readers for the study of modern optimal control theory Selected variational problems and over 400 exercises Bibliography 1969 edition [Introduction To The Calculus of Variations And Its Applications](#) Frederic Wan, 2017-10-19 This comprehensive text provides all information necessary for an introductory course on the calculus of variations and optimal control theory Following a thorough discussion of the basic problem including sufficient conditions for optimality the theory and techniques are extended to problems with a free end point a free boundary auxiliary and inequality constraints leading to a study of optimal control theory *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 *Calculus of Variations* A. M. Arthurs, 1975

A History of the Calculus of Variations from the 17th through the 19th Century H. H. Goldstine, 2012-12-06 The calculus of variations is a subject whose beginning can be precisely dated It might be said to begin at the moment that Euler coined the name calculus of variations but this is of course not the true moment of inception of the subject It would not have been unreasonable if I had gone back to the set of isoperimetric problems considered by Greek mathematicians such as Zenodorus c 200 B C and preserved by Pappus c 300 A D I have not done this since these problems were solved by geometric means Instead I have arbitrarily chosen to begin with Fermat's elegant principle of least time He used this principle in 1662 to show how a light ray was refracted at the interface between two optical media of different densities This analysis of Fermat seems to me especially appropriate as a starting point He used the methods of the calculus to minimize the time of passage of a light ray through the two media and his method was adapted by John Bernoulli to solve the brachistochrone problem There have been several other histories of the subject but they are now hopelessly archaic One by Robert Woodhouse appeared in 1810 and another by Isaac Todhunter in 1861

The Calculus of Variations Bruce van Brunt, 2003-09-12 Suitable for advanced undergraduate and graduate students of mathematics physics or engineering this introduction to the calculus of variations focuses on variational problems involving one independent variable It also discusses more advanced topics such as the inverse problem eigenvalue problems and Noether's theorem The text includes numerous examples along with problems to help students consolidate the material [Introduction to the Calculus of Variations](#) U. Brechteken-Mandersch, 1991-06-01 This text provides a clear concise introduction to the calculus of variations The introductory chapter provides a general sense of the subject through a discussion of several classical and contemporary examples of the subject's use *An Introduction to the Calculus of Variations* Charles Fox, 1987-01-01 In this highly

regarded text for advanced undergraduate and graduate students the author develops the calculus of variations both for its intrinsic interest and for its powerful applications to modern mathematical physics Topics include first and second variations of an integral generalizations isoperimetrical problems least action special relativity elasticity more 1963 edition Multiple Integrals in the Calculus of Variations Charles Bradfield Morrey Jr., 2009-11-03 From the reviews the book contains a wealth of material essential to the researcher concerned with multiple integral variational problems and with elliptic partial differential equations The book not only reports the researches of the author but also the contributions of his contemporaries in the same and related fields The book undoubtedly will become a standard reference for researchers in these areas The book is addressed mainly to mature mathematical analysts However any student of analysis will be greatly rewarded by a careful study of this book M R Hestenes in Journal of Optimization Theory and Applications The work intertwines in masterly fashion results of classical analysis topology and the theory of manifolds and thus presents a comprehensive treatise of the theory of multiple integral variational problems L Schmetterer in Monatshefte f r Mathematik The book is very clearly exposed and contains the last modern theory in this domain A comprehensive bibliography ends the book M Coroi Nedeleu in Revue Roumaine de Math matiques Pures et Appliqu es

Calculus of Variations Gilbert Ames Bliss, 1925-12-31 The development of the calculus of variations has from the beginning been interlaced with that of the differential and integral calculus Without any knowledge of the calculus one can readily understand at least the geometrical or mechanical statements of many of the problems of the calculus of variations and the character of their solutions The discovery and justification of the results in this book apart from their simple statements do require however acquaintance with the principles of the calculus and it is assumed that the reader has such an acquaintance Calculus of Variations begins by studying special problems rather than the general theory The first chapter of the book describes the historical setting out of which the theory of the calculus of variations grew and the character of some of the simpler problems The next three chapters are devoted to the development in detail of the then known results for three special problems shortest distances brachistochrone and surfaces of revolution of minimum area which illustrate in excellent fashion the essential characteristics of the general theory contained in Chapter V with which the book concludes

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