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theory though most of the preliminaries are also recalled in the appendix **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* 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 **Introduction To The Calculus of Variations And Its Applications**

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