Calculus of variations变分法

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著者:Weinstock

出版者:Dover Publications

出版时间:

装帧:

isbn:9780486630694

This book by Robert Weinstock was written tO fill the need for a basic introduction to the calculus of variations. Simply and easilv written. with an emphasis 011 the applications of this calculus. it has long beell a standard refm ence of physicists，engineers and applied mathmn aticians

The author begins slowly，introducing the readel"to the calculus of variations，and supplying lists of essential formulae and derivations. Later chapters cover isoperimetric problem s，geometrical optics，Fennat's principle. dynamiCS of particles. the SfLUm—Liouville eigenvalue·eigenfunction problem，the theory of elasticity，quan-tunl mechanics，and electrostatics. Each chapter ends with a series of exercises which shoukl prove veiv useful in deterlnining VI rhether the material in that chapter has been thorotlghly grasped.

The clarity of exposition makes this book easily accessible tO anV。one who has mastered irst—year calculus with SOIlle exposure to ordinary differential equations Physicists and engineers who find variational methods evasive at times will find this book particularly helpful.

作者介绍:

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