# <<Calculus of variatio>>

#### 图书基本信息

书名: <<Calculus of variations变分法>>

13位ISBN编号: 9780486630694

10位ISBN编号: 0486630692

出版时间: Dover Publications

作者:Weinstock,Robert

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### 内容概要

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 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 should prove veiv useful in deterlining rhether the material in that chapter has been thorotlghly grasped .

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

## <<Calculus of variatio>>

#### 书籍目录

**PREFACE** 

**CHAPTER 1 INTRODUCTION** 

**CHAPTER 2 BACKGROUND PRELIMINARIES** 

**CHAPTER 3 INTRODUCTORY PROBLEMS** 

CHAPTER 4 ISOPERIMETRIC PROBLEMS

CHAPTER 5 GEOMETRICAL OPTICS: FERMAT'S PRINCIPLE

**CHAPTER 6 DYNAMICS OF PARTICLES** 

CHAPTER 7 TWO INDEPENDENT VARIABLES: THE VIBRATING STRING

CHAPTER 8 THE STURM-LIOUVILIE OIGENVALUE-EIGENFUNG-TION PROBLEM CHAPTER 9 SEVERAL INDEPENDENT VARIABLES: THE VIBRAT-ING MEMBRANE

CHAPTER 10 THEORY OF ELASTICITY

**CHAPTER 11 QUANTUM MECHANICS** 

**CHAPTER 12 ELECTROSTATICS** 

**BIBLIOGRAPHY** 

**INDEX** 

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