

The variational method in quantum mechanics among other applications allows us to demonstrate general properties in quantum mechanics. This problem asks to prove the following property. Suppose we have a potential $V(x)$ with the following properties

$$W(x) < 0, \quad \int_{-\infty}^{\infty} W(x) = \text{finite value} \quad \int_{-\infty}^{\infty} x^2 W(x) = \text{finite value}$$

Consider the Hamiltonian

$$H = \frac{P^2}{2m} + W(x)$$

and the family of trial functions,

$$\psi_{\alpha}(x) = \left(\frac{\alpha}{\pi}\right)^{1/4} e^{-\alpha x^2/2}$$

In particular note that if $\alpha = m\omega/\hbar$ then $\psi_{\alpha}(x)$ is the fundamental eigenstate of the Hamiltonian,

$$H_0 = \frac{p^2}{2m} + \frac{1}{2}m\omega^2 x^2$$

The objective of this problem is to show that the Hamiltonian H has at least one bound state, that is, with energy $E < 0$. For this, the variational method must be applied together with the family of functions $\psi_{\alpha}(x)$ following the steps indicated in the following items.

a) Show that

$$\bar{H}(\alpha) = \langle \psi_{\alpha} | H | \psi_{\alpha} \rangle = \frac{\hbar^2}{4m} \alpha + \langle \psi_{\alpha} | W(x) | \psi_{\alpha} \rangle$$

Hint: Use that $H = H_0 + W(x) - m\omega^2 x^2/2$ and $\alpha = m\omega/\hbar$.

Variational Methods In Mechanics

J. N. Reddy



Variational Methods In Mechanics:

Energy Principles and Variational Methods in Applied Mechanics J. N. Reddy, 2017-09-05 A comprehensive guide to using energy principles and variational methods for solving problems in solid mechanics This book provides a systematic highly practical introduction to the use of energy principles traditional variational methods and the finite element method for the solution of engineering problems involving bars beams torsion plane elasticity trusses and plates It begins with a review of the basic equations of mechanics the concepts of work and energy and key topics from variational calculus It presents virtual work and energy principles energy methods of solid and structural mechanics Hamilton s principle for dynamical systems and classical variational methods of approximation And it takes a more unified approach than that found in most solid mechanics books to introduce the finite element method Featuring more than 200 illustrations and tables this Third Edition has been extensively reorganized and contains much new material including a new chapter devoted to the latest developments in functionally graded beams and plates Offers clear and easy to follow descriptions of the concepts of work energy energy principles and variational methods Covers energy principles of solid and structural mechanics traditional variational methods the least squares variational method and the finite element along with applications for each Provides an abundance of examples in a problem solving format with descriptions of applications for equations derived in obtaining solutions to engineering structures Features end of the chapter problems for course assignments a Companion Website with a Solutions Manual Instructor s Manual figures and more Energy Principles and Variational Methods in Applied Mechanics Third Edition is both a superb text reference for engineering students in aerospace civil mechanical and applied mechanics and a valuable working resource for engineers in design and analysis in the aircraft automobile civil engineering and shipbuilding industries

Variational Methods in Theoretical Mechanics J.T. Oden, J.N. Reddy, 2012-12-06 This is a textbook written for use in a graduate level course for students of mechanics and engineering science It is designed to cover the essential features of modern variational methods and to demonstrate how a number of basic mathematical concepts can be used to produce a unified theory of variational mechanics As prerequisite to using this text we assume that the student is equipped with an introductory course in functional analysis at a level roughly equal to that covered for example in Kolmogorov and Fomin Functional Analysis Vol I Graylock Rochester 1957 and possibly a graduate level course in continuum mechanics Numerous references to supplementary material are listed throughout the book We are indebted to Professor Jim Douglas of the University of Chicago who read an earlier version of the manuscript and whose detailed suggestions were extremely helpful in preparing the final draft He also gratefully acknowledge that much of our own research work on variational theory was supported by the U S Air Force Office of Scientific Research He are indebted to Mr Ming Goei Sheu for help in proofreading Finally we wish to express thanks to Mrs Marilyn Gude for her excellent and pains taking job of typing the manuscript J T ODEN J N REDDY Table of Contents PREFACE 1 INTRODUCTION 1 1 The Role of Variational

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Variational Methods in Mechanics Toshio Mura, Tatsuhiro Koya, Demetris Kouris, 1992 The recent success and popularity of the finite element method crucial to solving mathematical problems in many branches of engineering today is based on the variational methods discussed in this textbook The author Toshio Mura is a distinguished engineer and applied mathematician who brings to the work a highly pragmatic approach designed to facilitate teaching the subject which is essential for all materials science and mechanical and civil engineering students In addition to all basic topics the authors cover state of the art research findings such as those involving composite materials

An Introduction to Modern Variational Techniques in Mechanics and Engineering Bozidar D. Vujanovic, Teodor M. Atanackovic, Teodor M. Atanacković, 2004 Atanackovic has good track record with Birkhauser his Theory of Elasticity book 4072 X has been well reviewed Current text has received two excellent pre pub reviews May be used as textbook in advanced undergrad beginning grad advanced dynamics courses in engineering physics applied math departments Also useful as self study reference for researchers and practitioners Many examples and novel applications throughout Competitive literature Meirovich Goldstein is outdated and does not include the synthesis of topics presented here

Variational Methods in the Mechanics of Solids S. Nemat-Nasser, 2017-01-31 Variational Methods in the Mechanics of Solids contains the proceedings of the International Union of Theoretical and Applied Mechanics Symposium on Variational Methods in the Mechanics of Solids held at Northwestern University in Evanston Illinois on September 11 13 1978 The papers focus on advances in the application of variational methods to a variety of mathematically and technically significant problems in solid mechanics The discussions are organized around three themes thermomechanical behavior of composites elastic and inelastic boundary value problems and elastic and inelastic dynamic problems This book is comprised of 58 chapters and opens by addressing some questions of asymptotic expansions connected with composite and with perforated materials The following chapters explore mathematical and computational methods in plasticity variational irreversible thermodynamics of open physical chemical continua macroscopic behavior of elastic material with periodically spaced rigid inclusions and application of the Lanczos method to structural vibration Finite deformation of elastic beams and complementary theorems of solid mechanics are also considered along with numerical contact elastostatics periodic solutions in plasticity and viscoplasticity and the convergence of the mixed finite element method in linear elasticity This monograph will appeal to practitioners of mathematicians as well as theoretical and applied mechanics

Variational Methods in Theoretical Mechanics J. T. Oden, J. N. Reddy, 1982-11-01 Variational methods in theoretical mechanics J. Tinsley Oden, Junuthula N. Reddy, 1998 The Variational Principles of Mechanics Cornelius Lanczos, 1986-01-01 Philosophic less formalistic approach to analytical mechanics offers model of clear scholarly exposition at graduate level with coverage of basics calculus of variations principle of virtual work equations of motion more

Energy and Variational Methods in Applied Mechanics

J. N. Reddy,1984-09-20 A practical introduction to the use of the finite element method and variational methods to solve engineering problems about beams bars torsion and plane elasticity Includes a concise section on composite material laminated plates and shells Contains numerous examples exercises problems and references *Variational Views in Mechanics* Paolo Maria Mariano,2022-02-08 This volume provides a timely survey of interactions between the calculus of variations and theoretical and applied mechanics Chapters have been significantly expanded since preliminary versions appeared in a special issue of the Journal of Optimization Theory and Applications 184 1 2020 on Calculus of Variations in Mechanics and Related Fields The variety of topics covered offers researchers an overview of problems in mechanics that can be analyzed with variational techniques making this a valuable reference for researchers in the field It also presents ideas for possible future areas of research showing how the mastery of these foundational mathematical techniques can be used for many exciting applications Specific topics covered include Topology optimization Identification of material properties Optimal control Plastic flows Gradient polyconvexity Obstacle problems Quasi monotonicity *Variational Views in Mechanics* will appeal to researchers in mathematics solid states physics and mechanical civil and materials engineering

Variational Methods in the Mechanics of Solids S. Nemat-Nasser,1980-01-01 **Solid Mechanics** Clive L. Dym,Irving H. Shames,2013-04-05 *Solid Mechanics A Variational Approach* Augmented Edition presents a lucid and thoroughly developed approach to solid mechanics for students engaged in the study of elastic structures not seen in other texts currently on the market This work offers a clear and carefully prepared exposition of variational techniques as they are applied to solid mechanics Unlike other books in this field Dym and Shames treat all the necessary theory needed for the study of solid mechanics and include extensive applications Of particular note is the variational approach used in developing consistent structural theories and in obtaining exact and approximate solutions for many problems Based on both semester and year long courses taught to undergraduate seniors and graduate students this text is geared for programs in aeronautical civil and mechanical engineering and in engineering science The authors objective is two fold first to introduce the student to the theory of structures one and two dimensional as developed from the three dimensional theory of elasticity and second to introduce the student to the strength and utility of variational principles and methods including briefly making the connection to finite element methods A complete set of homework problems is included **Variational Models and Methods in Solid and Fluid Mechanics** Francesco dell'Isola,Sergey Gavriluyk,2012-01-15 F dell Isola L Placidi Variational principles are a powerful tool also for formulating field theories F dell Isola P Seppecher A Madeo Beyond Euler Cauchy Continua The structure of contact actions in N th gradient generalized continua a generalization of the Cauchy tetrahedron argument B Bourdin G A Francfort Fracture S Gavriluyk Multiphase flow modeling via Hamilton s principle V L Berdichevsky Introduction to stochastic variational problems A Carcaterra New concepts in damping generation and control theoretical formulation and industrial applications F dell Isola P Seppecher A Madeo Fluid shock wave generation at solid material

discontinuity surfaces in porous media Variational methods give an efficient and elegant way to formulate and solve mathematical problems that are of interest to scientists and engineers In this book three fundamental aspects of the variational formulation of mechanics will be presented physical mathematical and applicative ones The first aspect concerns the investigation of the nature of real physical problems with the aim of finding the best variational formulation suitable to those problems The second aspect is the study of the well posedness of those mathematical problems which need to be solved in order to draw previsions from the formulated models And the third aspect is related to the direct application of variational analysis to solve real engineering problems

Variational Methods for Nonsmooth Mechanics Razvan Constantin Fetecau, California Institute of Technology. Division of Engineering and Applied Science, 2003

Variational Methods and Complementary Formulations in Dynamics C. Tabarrok, F.P. Rimrott, 2012-12-05 Not many disciplines can claim the richness of creative ideas that make up the subject of analytical mechanics This is not surprising since the beginnings of analytical mechanics mark also the beginnings of the theoretical treatment of other physical sciences and contributors to analytical mechanics have been many including the most brilliant mathematicians and theoreticians in the history of mankind As the foundation for theoretical physics and the associated branches of the engineering sciences an adequate command of analytical mechanics is an essential tool for any engineer physicist and mathematician active in dynamics A fascinating discipline analytical mechanics is not only indispensable for the solution of certain mechanics problems but also contributes so effectively towards a fundamental understanding of the subject of mechanics and its applications In analytical mechanics the fundamental laws are expressed in terms of work done and energy exchanged The extensive use of mathematics is a consequence of the fact that in analytical mechanics problems can be expressed by variational statements thus giving rise to the employment of variational methods Further it can be shown that the independent variables may be either displacements or impulses thus providing in principle the possibility of two complementary formulations i.e. a displacement formulation and an impulse formulation for each problem This duality is an important characteristic of mechanics problems and is given special emphasis in the present book

VARIATIONAL METHODS IN THE MECHANICS OF SOLIDS S. (ED.) NEMAT-NASSER, 1980 *Variational Methods in the Mechanics of Solids* S. Nemat-Nasser, 1980

Variational Methods with Applications in Science and Engineering Kevin W. Cassel, 2013-07-22 There is a resurgence of applications in which the calculus of variations has direct relevance In addition to application to solid mechanics and dynamics it is now being applied in a variety of numerical methods numerical grid generation modern physics various optimization settings and fluid dynamics Many applications such as nonlinear optimal control theory applied to continuous systems have only recently become tractable computationally with the advent of advanced algorithms and large computer systems This book reflects the strong connection between calculus of variations and the applications for which variational methods form the fundamental foundation The mathematical fundamentals of calculus

of variations at least those necessary to pursue applications is rather compact and is contained in a single chapter of the book. The majority of the text consists of applications of variational calculus for a variety of fields.

Variational Methods for Structural Optimization Andrej Cherkaev, 2011-09-27 This book bridges a gap between a rigorous mathematical approach to variational problems and the practical use of algorithms of structural optimization in engineering applications. The foundations of structural optimization are presented in sufficiently simple form as to make them available for practical use.

Variational Methods in Nonconservative Phenomena B. D. Vujanovic, S. E. Jones, 1989-05-01 This book provides a comprehensive survey of analytic and approximate solutions of problems of applied mechanics with particular emphasis on nonconservative phenomena. Include

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