

Variational methods for boundary value problems

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Dedicated to Dr. Alex McNabb on the occasion of his 70th birthday in January 2000.

Abstract. The variational formulation of boundary value problems is valuable in providing remarkably easy computational algorithms as well as an alternative framework with which to prove existence results. Boundary conditions impose constraints which can be annoying from a computational point of view. The question is then posed: what is the most general boundary value problem which can be posed in variational form with the boundary conditions appearing naturally? Special cases of two-point problems in one-dimension and some higher dimensional problems are addressed. There is a deep connection with self-adjointness for the linear case. Further cases under which a Lagrangian may or may not exist are explained.

Keywords: natural boundary conditions, self-adjointness, Hamiltonian, Lagrangian.

1. Introduction

1.1. Background

Variational methods provide a conceptual and computational framework for boundary value problems (BVPs). In the paper we derive conditions which guarantee that a given BVP can be reformulated in variational form. This can be a way of proving existence for BVPs (Graham-Eagle and Wake [6]) and it also provides a scheme for determination of a computational algorithm as in Fradkin and Wake [5]. In the case of nonlinear eigenvalue problems, these can be a way of producing outcomes like parameter path-following as has been produced by other means by computer packages like Auto (Doedel [2]).

The question of what precise conditions need to be imposed on boundary value problems so that they can be written in variational form has been discussed sporadically in the literature, see for example Anderson and Thompson [1], Fels [3],

Variational Methods For Boundary Value Problems Etc

Mikhail Alekseevich Lavrent-Ev



Variational Methods For Boundary Value Problems Etc:

Variational Methods, for Boundary Value Problems, for Systems of Elliptic Equations M. A. Lavrent'ev, 1963

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Famous monograph by a distinguished mathematician presents an innovative approach to classical boundary value problems. The treatment employs the basic scheme first suggested by Hilbert and developed by Tonelli. 1963 edition [Variational Methods for Boundary Value Problems for Systems of Elliptic Equations](#) Mikhail Alekseevich Lavrent'ev, 1963 **Multiple Solutions Of Boundary Value Problems: A Variational Approach** John R Graef, Lingju Kong, 2015-08-26 Variational methods and their generalizations have been verified to be useful tools in proving the existence of solutions to a variety of boundary value problems for ordinary impulsive and partial differential equations as well as for difference equations. In this monograph we look at how variational methods can be used in all these settings. In our first chapter we gather the basic notions and fundamental theorems that will be applied in the remainder of this monograph. While many of these items are easily available in the literature we gather them here both for the convenience of the reader and for the purpose of making this volume somewhat self contained. Subsequent chapters deal with the Sturm Liouville problems, multi point boundary value problems, problems with impulses, partial differential equations and difference equations. An extensive bibliography is also included. [Variational Methods for Boundary Value Problems](#) Bernie Pui Man Tsang, 1999 **Methods of Functional Analysis for Application in Solid Mechanics** J. Mason, 2013-10-22 Publications oriented to the interests of engineering scientists and graduate students on topics of functional analysis and its applications are rare. This book has been written to fill the gap in the literature. It provides a readable account of basic mathematical topics with illustrative examples and chapters devoted to finite elements, variational principles of elasticity and plasticity, variational inequalities and elastic stability. The text is entirely self contained and covers a wide range of topics and ideas from elementary concepts to modern theories and applications and includes numerous references. It is written for engineers, graduate students and researchers who need a general knowledge of modern mathematical methods in solid mechanics. **Variational Methods in Boundary Value Problems** Hans F. Weinberger, 1961 **The Nonlinear Theory of Elastic Shells** A. Libai, 2012-12-02 The Nonlinear Theory of Elastic Shells. One Spatial Dimension presents the foundation for the nonlinear theory of thermoelastic shells undergoing large strains and large rotations. This book discusses several relatively simple equations for practical application. Organized into six chapters, this book starts with an overview of the description of nonlinear elastic shells. This text then discusses the foundation of three dimensional continuum mechanics that are relevant to the shell theory approach. Other chapters cover several topics including beams, shells and axisymmetric shells that begins with a derivation of the equations of motion by a descent from the equations of balance of linear and rotational momentum of a three dimensional material continuum. This book discusses as well the approach to deriving complete field equations for one or two dimensional continua.

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Variational and Free Boundary Problems Avner Friedman,Joel Spruck,2012-12-06 This IMA Volume in Mathematics and its Applications VARIATIONAL AND FREE BOUNDARY PROBLEMS is based on the proceedings of a workshop which was an integral part of the 1990 91 IMA program on Phase Transitions and Free Boundaries The aim of the workshop was to highlight new methods directions and problems in variational and free boundary theory with a concentration on novel applications of variational methods to applied problems We thank R Fosdick M E Gurtin W M Ni and L A Peletier for organizing the year long program and especially J Sprock for co organizing the meeting and co editing these proceedings We also take this opportunity to thank the National Science Foundation whose financial support made the workshop possible

Avner Friedman Willard Miller Jr PREFACE In a free boundary one seeks to find a solution u to a partial differential equation in a domain a part r of its boundary of which is unknown Thus both u and r must be determined In addition to the standard boundary conditions on the un known domain an additional condition must be prescribed on the free boundary A classical example is the Stefan problem of melting of ice here the temperature satisfies the heat equation in the water region and yet this region itself or rather the ice water interface is unknown and must be determined together with the temperature within the water Some free boundary problems lend themselves to variational formulation

Encyclopaedia of Mathematics Michiel Hazewinkel,2013-12-01

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