

Variational Methods for Free Surface Interfaces

Edited by
Paul Concus
Robert Finn



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Variational Methods For Free Surface Interfaces

Paul Concus, Robert Finn



Variational Methods For Free Surface Interfaces:

Variational Methods for Free Surface Interfaces Paul Concus, Robert Finn, 2012-12-06 Vallombrosa Center was host during the week September 7 12 1985 to about 40 mathematicians physical scientists and engineers who share a common interest in free surface phenomena This volume includes a selection of contributions by participants and also a few papers by interested scientists who were unable to attend in person Although a proceedings volume cannot recapture entirely the stimulus of personal interaction that ultimately is the best justification for such a gathering we do offer what we hope is a representative sampling of the contributions indicating something of the varied and interrelated ways with which these classical but largely unsettled questions are currently being attacked For the participants and also for other specialists the 23 papers that follow should help to establish and to maintain the new ideas and insights that were presented as active working tools Much of the material will certainly be of interest also for a broader audience as it impinges and overlaps with varying directions of scientific development On behalf of the organizing committee we thank the speakers for excellent well prepared lectures Additionally the many lively informal discussions did much to contribute to the success of the conference

Variational Methods for Free Surface Interfaces Paul Concus, Robert Finn, 1987-01-01 **Variational Methods for Free Surface Interfaces** Paul Concus, Robert Finn, 1986-12-22 *Geometric Partial Differential Equations - Part I*, 2020-01-14 Besides their intrinsic mathematical interest geometric partial differential equations PDEs are ubiquitous in many scientific engineering and industrial applications They represent an intellectual challenge and have received a great deal of attention recently The purpose of this volume is to provide a missing reference consisting of self contained and comprehensive presentations It includes basic ideas analysis and applications of state of the art fundamental algorithms for the approximation of geometric PDEs together with their impacts in a variety of fields within mathematics science and engineering About every aspect of computational geometric PDEs is discussed in this and a companion volume Topics in this volume include stationary and time dependent surface PDEs for geometric flows large deformations of nonlinearly geometric plates and rods level set and phase field methods and applications free boundary problems discrete Riemannian calculus and morphing fully nonlinear PDEs including Monge Ampere equations and PDE constrained optimization Each chapter is a complete essay at the research level but accessible to junior researchers and students The intent is to provide a comprehensive description of algorithms and their analysis for a specific geometric PDE class starting from basic concepts and concluding with interesting applications Each chapter is thus useful as an introduction to a research area as well as a teaching resource and provides numerous pointers to the literature for further reading The authors of each chapter are world leaders in their field of expertise and skillful writers This book is thus meant to provide an invaluable readable and enjoyable account of computational geometric PDEs *Global Analysis of Minimal Surfaces* Ulrich Dierkes, Stefan Hildebrandt, Anthony Tromba, 2010-08-16 Many properties of minimal surfaces are of a global nature and this is already true

for the results treated in the first two volumes of the treatise Part I of the present book can be viewed as an extension of these results For instance the first two chapters deal with existence regularity and uniqueness theorems for minimal surfaces with partially free boundaries Here one of the main features is the possibility of edge crawling along free parts of the boundary The third chapter deals with a priori estimates for minimal surfaces in higher dimensions and for minimizers of singular integrals related to the area functional In particular far reaching Bernstein theorems are derived The second part of the book contains what one might justly call a global theory of minimal surfaces as envisioned by Smale First the Douglas problem is treated anew by using Teichmüller theory Secondly various index theorems for minimal surfaces are derived and their consequences for the space of solutions to Plateau's problem are discussed Finally a topological approach to minimal surfaces via Fredholm vector fields in the spirit of Smale is presented

Low-Gravity Fluid Dynamics and Transport Phenomena Robert L. Sani, 1990

Regularity of Minimal Surfaces Ulrich Dierkes, Stefan Hildebrandt, Anthony Tromba, 2010-08-16

Regularity of Minimal Surfaces begins with a survey of minimal surfaces with free boundaries Following this the basic results concerning the boundary behaviour of minimal surfaces and H surfaces with fixed or free boundaries are studied In particular the asymptotic expansions at interior and boundary branch points are derived leading to general Gauss-Bonnet formulas Furthermore gradient estimates and asymptotic expansions for minimal surfaces with only piecewise smooth boundaries are obtained One of the main features of free boundary value problems for minimal surfaces is that for principal reasons it is impossible to derive a priori estimates Therefore regularity proofs for non-minimizers have to be based on indirect reasoning using monotonicity formulas This is followed by a long chapter discussing geometric properties of minimal and H surfaces such as enclosure theorems and isoperimetric inequalities leading to the discussion of obstacle problems and of Plateau's problem for H surfaces in a Riemannian manifold A natural generalization of the isoperimetric problem is the so-called thread problem dealing with minimal surfaces whose boundary consists of a fixed arc of given length Existence and regularity of solutions are discussed The final chapter on branch points presents a new approach to the theorem that area-minimizing solutions of Plateau's problem have no interior branch points

Minimal Surfaces II Ulrich Dierkes, Stefan Hildebrandt, Albrecht Küster, Ortwin Wohlrab, 2013-03-14

Minimal Surfaces I is an introduction to the field of minimal surfaces and a presentation of the classical theory as well as of parts of the modern development centered around boundary value problems Part II deals with the boundary behaviour of minimal surfaces Part I is particularly apt for students who want to enter this interesting area of analysis and differential geometry which during the last 25 years of mathematical research has been very active and productive Surveys of various subareas will lead the student to the current frontiers of knowledge and can also be useful to the researcher The lecturer can easily base courses of one or two semesters on differential geometry on Vol 1 as many topics are worked out in great detail Numerous computer-generated illustrations of old and new minimal surfaces are included to support intuition and imagination Part 2 leads the reader up to the regularity

theory for nonlinear elliptic boundary value problems illustrated by a particular and fascinating topic There is no comparably comprehensive treatment of the problem of boundary regularity of minimal surfaces available in book form This long awaited book is a timely and welcome addition to the mathematical literature

Minimal Surfaces I Ulrich Dierkes, Stefan Hildebrandt, Albrecht Küster, Ortwin Wohlrab, 2013-11-27 Minimal surfaces I is an introduction to the field of minimal surfaces and a presentation of the classical theory as well as of parts of the modern development centered around boundary value problems Part II deals with the boundary behaviour of minimal surfaces Part I is particularly apt for students who want to enter this interesting area of analysis and differential geometry which during the last 25 years of mathematical research has been very active and productive Surveys of various subareas will lead the student to the current frontiers of knowledge and can also be useful to the researcher The lecturer can easily base courses of one or two semesters on differential geometry on Vol 1 as many topics are worked out in great detail Numerous computer generated illustrations of old and new minimal surfaces are included to support intuition and imagination Part 2 leads the reader up to the regularity theory for nonlinear elliptic boundary value problems illustrated by a particular and fascinating topic There is no comparably comprehensive treatment of the problem of boundary regularity of minimal surfaces available in book form This long awaited book is a timely and welcome addition to the mathematical literature

Minimal Surfaces Ulrich Dierkes, Stefan Hildebrandt, Friedrich Sauvigny, 2010-08-16 Minimal Surfaces is the first volume of a three volume treatise on minimal surfaces Grundlehren Nr 339 341 Each volume can be read and studied independently of the others The central theme is boundary value problems for minimal surfaces The treatise is a substantially revised and extended version of the monograph Minimal Surfaces I II Grundlehren Nr 295 this is done in the context of stable H surfaces i.e. of stable surfaces of prescribed mean curvature H especially of cmc surfaces $H = \text{const}$ and leads to curvature estimates for stable immersed cmc surfaces and to Nitsche's uniqueness theorem and Tomi's finiteness result In addition a theory of unstable solutions of Plateau's problems is developed which is based on Courant's mountain pass lemma Furthermore Dirichlet's problem for nonparametric H surfaces is solved using the solution of Plateau's problem for H surfaces and the pertinent estimates

39th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit July 20-23, 2003, Huntsville, Alabama: 03-4850 - 03-4899, 2003

Fluid Mechanics Phenomena in Microgravity American Society of Mechanical Engineers. Winter Annual Meeting, 1992

Geometric Analysis and the Calculus of Variations Jürgen Jost, 1996 This volume is dedicated to the ideas of Stefan Hildebrandt whose doctoral students include Bernd Schmidt and Klaus Stefan His solution to the boundary regularity question for minimal surfaces bounded by a prescribed Jordan curve brought him world fame

Extended Finite Element Method Soheil Mohammadi, 2008-03-31 Provides an introduction to the concepts of extended finite element method XFEM for fracture analysis of structures as well as for other related engineering applications The book is self contained with summaries of both classical and modern computational techniques It also includes numerical examples describing various features of XFEM

Mathematical Reviews ,2008 **Bibliographic Guide to Conference Publications** New York Public Library. Research Libraries,1989 Vols for 1975 include publications cataloged by the Research Libraries of the New York Public Library with additional entries from the Library of Congress MARC tapes *Supplemento ai Rendiconti del Circolo matematico di Palermo* Circolo matematico di Palermo,1987 **Supplemento ai rendiconti del Circolo matematico di Palermo** ,1986
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