Plateau Problem

Michael Struwe

Plateau Problem:

    Plateau's Problem and the Calculus of Variations Michael Struwe,2014-07-14 This book is meant to give an account of recent developments in the theory of Plateau s problem for parametric minimal surfaces and surfaces of prescribed constant mean curvature H surfaces and its analytical framework A comprehensive overview of the classical existence and regularity theory for disc type minimal and H surfaces is given and recent advances toward general structure theorems concerning the existence of multiple solutions are explored in full detail The book focuses on the author s derivation of the Morse inequalities and in particular the mountain pass lemma of Morse Tompkins and Shiffman for minimal surfaces and the proof of the existence of large unstable H surfaces Rellich s conjecture due to Brezis Coron Steffen and the author Many related results are covered as well More than the geometric aspects of Plateau s problem which have been exhaustively covered elsewhere the author stresses the analytic side The emphasis lies on the variational method Originally published in 1989 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905 *Plateau's Problem* Frederick J. Almgren (Jr.),1966 There have been many wonderful developments in the theory of minimal surfaces and geometric measure theory in the past 25 to 30 years Many of the researchers who have produced these excellent results were inspired by this little book or by Fred Almgren himself The book is indeed a delightful invitation to the world of variational geometry A central topic is Plateau s Problem which is concerned with surfaces that model the behavior of soap films When trying to resolve the problem however one soon finds that smooth surfaces are insufficient Varifolds are needed With varifolds one can obtain geometrically meaningful solutions without having to know in advance all their possible singularities This new tool makes possible much exciting new analysis and many new results Plateau s problem and varifolds live in the world of geometric measure theory where differential geometry and measure theory combine to solve problems which have variational aspects The author s hope in writing this book was to encourage young mathematicians to study this fascinating subject further Judging from the success of his students it achieves this exceedingly well *Minimal Surfaces, Stratified Multivarifolds, and the Plateau Problem* A. T. Fomenko,1991-02-21 Plateau s problem is a scientific trend in modern mathematics that unites several different problems connected with the study of minimal surfaces In its simplest version Plateau s problem is concerned with finding a surface of least area that spans a given fixed one dimensional contour in three dimensional space perhaps the best known example of such surfaces is provided by soap films From the mathematical point of view such films are described as solutions of a second order partial differential equation so their behavior is quite complicated and has still not been thoroughly studied Soap films

or more generally interfaces between physical media in equilibrium arise in many applied problems in chemistry physics and also in nature In applications one finds not only two dimensional but also multidimensional minimal surfaces that span fixed closed contours in some multidimensional Riemannian space An exact mathematical statement of the problem of finding a surface of least area or volume requires the formulation of definitions of such fundamental concepts as a surface its boundary minimality of a surface and so on It turns out that there are several natural definitions of these concepts which permit the study of minimal surfaces by different and complementary methods In the framework of this comparatively small book it would be almost impossible to cover all aspects of the modern problem of Plateau to which a vast literature has been devoted However this book makes a unique contribution to this literature for the authors guiding principle was to present the material with a maximum of clarity and a minimum of formalization Chapter 1 contains historical background on Plateau s problem referring to the period preceding the 1930s and a description of its connections with the natural sciences This part is intended for a very wide circle of readers and is accessible for example to first year graduate students The next part of the book comprising Chapters 2 5 gives a fairly complete survey of various modern trends in Plateau s problem This section is accessible to second and third year students specializing in physics and mathematics The remaining chapters present a detailed exposition of one of these trends the homotopic version of Plateau s problem in terms of stratified multivarifolds and the Plateau problem in homogeneous symplectic spaces This last part is intended for specialists interested in the modern theory of minimal surfaces and can be used for special courses a command of the concepts of functional analysis is assumed

On the Problem of Plateau / Subharmonic Functions T. Rado,2013-06-29 A convex function f may be called sublinear in the following sense if a linear function l is j at the boundary points of an interval then l j in the interior of that interval also If we replace the terms interval and linear junction by the terms domain and harmonic function we obtain a statement which expresses the characteristic property of subharmonic functions of two or more variables This ge neralization formulated and developed by F RIEsz immediately at tracted the attention of many mathematicians both on account of its intrinsic interest and on account of the wide range of its applications If f z is an analytic function of the complex variable z x i y then If z I is subharmonic The potential of a negative mass distribu tion is subharmonic In differential geometry surfaces of negative curvature and minimal surfaces can be characterized in terms of sub harmonic functions The idea of a subharmonic function leads to significant applications and interpretations in the fields just referred to and conversely every one of these fields is an apparently in exhaustible source of new theorems on subharmonic functions either by analogy or by direct implication

The Problem Of Plateau: A Tribute To Jesse Douglas And Tibor Rado Themistocles M Rassias,1992-12-21 This volume consists of papers written by eminent scientists from the international mathematical community who present the latest information concerning the problem of Plateau after its classical solution by Jesse Douglas and Tibor Rad The contributing papers provide insight and perspective on various problems in modern topics of Calculus of Variations Global

Differential Geometry and Global Nonlinear Analysis as related to the problem of Plateau   Calculus of Variations and Geometric Evolution Problems F. Bethuel,G. Huisken,S. Mueller,K. Steffen,2006-11-14 The international summer school on Calculus of Variations and Geometric Evolution Problems was held at Cetraro Italy 1996 The contributions to this volume reflect quite closely the lectures given at Cetraro which have provided an image of a fairly broad field in analysis where in recent years we have seen many important contributions Among the topics treated in the courses were variational methods for Ginzburg Landau equations variational models for microstructure and phase transitions a variational treatment of the Plateau problem for surfaces of prescribed mean curvature in Riemannian manifolds both from the classical point of view and in the setting of geometric measure theory   **Plateau's Problem** Frederick J. Almgren,1966   **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 apresentation 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 alsobe 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 fornonlinear 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 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   *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 Teichm ller theory Secondly various index theorems for minimal theorems 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   Variational Methods Michael Struwe,2008-11-05 This the fourth edition of Stuwe s book on the calculus of variations surveys new developments in this exciting field It also gives a concise introduction to variational methods In particular it includes the proof for the convergence of the Yamabe flow and a detailed treatment of the phenomenon of blow up Recently discovered results for backward bubbling in the heat flow for harmonic maps or surfaces are discussed A number of changes have been made throughout the text   **Open Problems in Mathematics** John Forbes Nash, Jr.,Michael Th. Rassias,2016-07-05 The goal in putting together this unique compilation was to present the current status of the solutions to some of the most essential open problems in pure and applied mathematics Emphasis is also given to problems in interdisciplinary research for which mathematics plays a key role This volume comprises highly selected contributions by some of the most eminent mathematicians in the international mathematical community on longstanding problems in very active domains of mathematical research A joint preface by the two volume editors is followed by a personal farewell to John F Nash Jr written by Michael Th Rassias An introduction by Mikhail Gromov highlights some of Nash s legendary mathematical achievements The treatment in this book includes open problems in the following fields algebraic geometry number theory analysis discrete mathematics PDEs differential geometry topology K theory game theory fluid mechanics dynamical systems and ergodic theory cryptography theoretical computer science and more Extensive discussions surrounding the progress made for each problem are designed to reach a wide community of readers from graduate students and established research mathematicians to physicists computer scientists economists and research scientists who are looking to develop essential and modern new methods and theories to solve a variety of open problems   **Surfaces with Constant Mean Curvature** Katsuei Kenmotsu,2003 The mean curvature of a surface is an extrinsic parameter measuring how the surface is curved in the three dimensional space A surface whose mean curvature is zero at each point is a minimal surface and it is known that such surfaces are models for soap film There is a rich and well known theory of minimal surfaces A surface whose mean

curvature is constant but nonzero is obtained when we try to minimize the area of a closed surface without changing the volume it encloses An easy example of a surface of constant mean curvature is the sphere A nontrivial example is provided by the constant curvature torus whose discovery in 1984 gave a powerful incentive for studying such surfaces Later many examples of constant mean curvature surfaces were discovered using various methods of analysis differential geometry and differential equations It is now becoming clear that there is a rich theory of surfaces of constant mean curvature In this book the author presents numerous examples of constant mean curvature surfaces and techniques for studying them Many finely rendered figures illustrate the results and allow the reader to visualize and better understand these beautiful objec <u>Top 20 coding interview problems asked in Google with solutions</u> Lin Quan,2014-02-07 Must Have for Google Aspirants This book is written for helping people prepare for Google Coding Interview It contains top 20 programming problems frequently asked Google with detailed worked out solutions both in pseudo code and C and C 11 Matching Nuts and Bolts OptimallySearching two dimensional sorted arrayLowest Common Ancestor LCA ProblemMax Sub Array ProblemCompute Next Higher Number2D Binary SearchString Edit DistanceSearching in Two Dimensional SequenceSelect Kth Smallest ElementSearching in Possibly Empty Two Dimensional SequenceThe Celebrity ProblemSwitch and Bulb ProblemInterpolation SearchThe Majority ProblemThe Plateau ProblemSegment ProblemsEfficient PermutationThe Non Crooks ProblemMedian Search ProblemMissing Integer Problem <u>Encyclopaedia of Mathematics</u> Michiel Hazewinkel,2012-12-06 This ENCYCLOPAEDIA OF MA THEMA TICS aims to be a reference work for all parts of mathe matics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivi sion has been used The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science en gineers and teachers of mathematics These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete problems results and techniques *Encyclopaedia of Mathematics* M. Hazewinkel,2013-12-01 **Encyclopaedia of Mathematics (set)** Michiel Hazewinkel,1994-02-28 The Encyclopaedia of Mathematics is the most up to date authoritative and comprehensive English language work of reference in mathematics which exists today With over 7 000 articles from A

integral to Zygmund Class of Functions supplemented with a wealth of complementary information and an index volume providing thorough cross referencing of entries of related interest the Encyclopaedia of Mathematics offers an immediate source of reference to mathematical definitions concepts explanations surveys examples terminology and methods The depth and breadth of content and the straightforward careful presentation of the information with the emphasis on accessibility makes the Encyclopaedia of Mathematics an immensely useful tool for all mathematicians and other scientists who use or are confronted by mathematics in their work The Enclyclopaedia of Mathematics provides without doubt a reference source of mathematical knowledge which is unsurpassed in value and usefulness It can be highly recommended for use in libraries of universities research institutes colleges and even schools **Library of Congress Subject Headings** Library of Congress,1991 Library of Congress Subject Headings Library of Congress. Office for Subject Cataloging Policy,1991
Variational Problems in Topology A.T. Fomenko,2019-06-21 Many of the modern variational problems of topology arise in different but overlapping fields of scientific study mechanics physics and mathematics In this work Professor Fomenko offers a concise and clear explanation of some of these problems both solved and unsolved using current methods of analytical topology His book falls into three interrelated sections The first gives an elementary introduction to some of the most important concepts of topology used in modern physics and mechanics homology and cohomology and fibration The second investigates the significant role of Morse theory in modern aspects of the topology of smooth manifolds particularly those of three and four dimensions The third discusses minimal surfaces and harmonic mappings and presents a number of classic physical experiments that lie at the foundations of modern understanding of multidimensional variational calculus The author s skilful exposition of these topics and his own graphic illustrations give an unusual motivation to the theory expounded and his work is recommended reading for specialists and non specialists alike involved in the fields of physics and mathematics at both undergraduate and graduate levels

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