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Rafael López

Constant Mean Curvature Surfaces with Boundary



Constant Mean Curvature Surfaces With Boundary Springer Monographs In Mathematics

Antonio Alarcón, Vicente Palmer, César Rosales

Constant Mean Curvature Surfaces With Boundary Springer Monographs In Mathematics:

Constant Mean Curvature Surfaces with Boundary Rafael López, 2013-08-31 The study of surfaces with constant mean curvature CMC is one of the main topics in classical differential geometry Moreover CMC surfaces are important mathematical models for the physics of interfaces in the absence of gravity where they separate two different media or for capillary phenomena Further as most techniques used in the theory of CMC surfaces not only involve geometric methods but also PDE and complex analysis the theory is also of great interest for many other mathematical fields While minimal surfaces and CMC surfaces in general have already been treated in the literature the present work is the first to present a comprehensive study of compact surfaces with boundaries narrowing its focus to a geometric view Basic issues include the discussion whether the symmetries of the curve inherit to the surface the possible values of the mean curvature area and volume stability the circular boundary case and the existence of the Plateau problem in the non parametric case The exposition provides an outlook on recent research but also a set of techniques that allows the results to be expanded to other ambient spaces Throughout the text numerous illustrations clarify the results and their proofs The book is intended for graduate students and researchers in the field of differential geometry and especially theory of surfaces including geometric analysis and geometric PDEs It guides readers up to the state of the art of the theory and introduces them to interesting open Lorentzian Geometry and Related Topics María A. Cañadas-Pinedo, José Luis Flores, Francisco J. problems Palomo, 2018-03-06 This volume contains a collection of research papers and useful surveys by experts in the field which provide a representative picture of the current status of this fascinating area Based on contributions from the VIII International Meeting on Lorentzian Geometry held at the University of M laga Spain this volume covers topics such as distinguished maximal trapped null spacelike constant mean curvature umbilical submanifolds causal completion of spacetimes stationary regions and horizons in spacetimes solitons in semi Riemannian manifolds relation between Lorentzian and Finslerian geometries and the oscillator spacetime In the last decades Lorentzian geometry has experienced a significant impulse which has transformed it from just a mathematical tool for general relativity to a consolidated branch of differential geometry interesting in and of itself Nowadays this field provides a framework where many different mathematical techniques arise with applications to multiple parts of mathematics and physics This book is addressed to differential geometers mathematical physicists and relativists and graduate students interested in the field The Role and Importance of Mathematics in Innovation Bob Anderssen, Philip Broadbridge, Yasuhide Fukumoto, Naoyuki Kamiyama, Yoshihiro Mizoguchi, Konrad Polthier, Osamu Saeki, 2016-08-09 This book is a collection of papers presented at the Forum Math for Industry 2015 for which the unifying theme was The Role and Importance of Mathematics in Innovation held at the Institute of Mathematics for Industry Kyushu University October 26 30 2015 The theme highlights two key roles that mathematics plays in supporting innovation in science technology and daily life namely needs based and idea based For the

former mathematics assists with sorting through the possibilities and putting matters on a more rigorous foundation and for the latter mathematical models of the possible implementations play a key role The book gives excellent examples of how mathematics assists with stimulating innovation and thereby highlights the importance and relevance of the concept Mathematics FOR Industry The contents of this volume address productive and successful interaction between industry and mathematicians as well as the cross fertilization and collaboration that result when mathematics is involved with the advancement of science and technology New Trends in Geometric Analysis Antonio Alarcón, Vicente Palmer, César Rosales, 2023-10-18 The aim of this book is to provide an overview of some of the progress made by the Spanish Network of Geometric Analysis REAG by its Spanish acronym since its born in 2007 REAG was created with the objective of enabling the interchange of ideas and the knowledge transfer between several Spanish groups having Geometric Analysis as a common research line This includes nine groups at Universidad Aut noma de Barcelona Universidad Aut noma de Madrid Universidad de Granada Universidad Jaume I de Castell n Universidad de Murcia Universidad de Santiago de Compostela and Universidad de Valencia The success of REAG has been substantiated with regular meetings and the publication of research papers obtained in collaboration between the members of different nodes On the occasion of the 15th anniversary of REAG this book aims to collect some old and new contributions of this network to Geometric Analysis The book consists of thirteen independent chapters all of them authored by current members of REAG The topics under study cover geometric flows constant mean curvature surfaces in Riemannian and sub Riemannian spaces integral geometry potential theory and Riemannian geometry among others Some of these chapters have been written in collaboration between members of different nodes of the network and show the fruitfulness of the common research atmosphere provided by REAG The rest of the chapters survey a research line or present recent progresses within a group of those forming REAG Surveying several research lines and offering new directions in the field the volume is addressed to researchers including postdocs and PhD Isoperimetric Inequalities in Riemannian Manifolds Manuel students in Geometric Analysis in the large Ritoré, 2023-10-06 This work gives a coherent introduction to isoperimetric inequalities in Riemannian manifolds featuring many of the results obtained during the last 25 years and discussing different techniques in the area Written in a clear and appealing style the book includes sufficient introductory material making it also accessible to graduate students It will be of interest to researchers working on geometric inequalities either from a geometric or analytic point of view but also to those interested in applying the described techniques to their field Convex Analysis and Nonlinear Geometric Elliptic **Equations** Ilya J. Bakelman, 2012-12-06 Investigations in modem nonlinear analysis rely on ideas methods and prob lems from various fields of mathematics mechanics physics and other applied sciences In the second half of the twentieth century many prominent ex emplary problems in nonlinear analysis were subject to intensive study and examination The united ideas and methods of differential geometry topology differential equations and functional analysis as well as other areas of

research in mathematics were successfully applied towards the complete solution of complex problems in nonlinear analysis It is not possible to encompass in the scope of one book all concepts ideas methods and results related to nonlinear analysis Therefore we shall restrict ourselves in this monograph to nonlinear elliptic boundary value problems as well as global geometric problems In order that we may examine these problems we are provided with a fundamental vehicle The theory of convex bodies and hypersurfaces In this book we systematically present a series of centrally significant results obtained in the second half of the twentieth century up to the present time Particular attention is given to profound interconnections between various divisions in nonlinear analysis. The theory of convex functions and bodies plays a crucial role because the ellipticity of differential equations is closely connected with the local and global convexity properties of their solutions Therefore it is necessary to have a sufficiently large amount of material devoted to the theory of convex bodies and functions and their connections with partial differential equations **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 Statistical Thermodynamics and Differential Geometry of Microstructured Materials H.Ted Davis, Johannes C.C. Nitsche, 2012-12-06 Substances possessing heterogeneous microstructure on the nanometer and micron scales are scientifically fascinating and technologically useful Examples of such substances include liquid crystals microemulsions biological matter polymer mixtures and composites vycor glasses and zeolites In this volume an interdisciplinary group of researchers report their developments in this field Topics include statistical mechanical free energy theories which predict the appearance of various microstructures the topological and geometrical methods needed for a mathematical description of the subparts and dividing surfaces of heterogeneous materials and modern computer aided mathematical models and graphics for effective exposition of the salient features of microstructured materials New **Developments in Differential Geometry, Budapest 1996** J. Szenthe, 2012-12-06 Proceedings of the Conference on Differential Geometry Budapest Hungary July 27 30 1996 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 Geometric Analysis of Quasilinear Inequalities on Complete Manifolds Bruno Bianchini, Luciano Mari, Patrizia Pucci, Marco Rigoli, 2021-01-18 This book demonstrates the influence of geometry on the qualitative behaviour of solutions of quasilinear PDEs on Riemannian manifolds Motivated by examples arising among others from the theory of submanifolds the authors study classes of coercive elliptic differential inequalities on domains of a manifold M with very general nonlinearities depending on the variable x on the solution u and on its gradient The book highlights the mean curvature operator and its variants and investigates the validity of strong maximum principles compact support principles and Liouville type theorems In particular it identifies sharp thresholds involving curvatures or volume growth of geodesic balls in M to guarantee the above properties under appropriate Keller Osserman type conditions which are investigated in detail throughout the book and discusses the geometric reasons behind the existence of such thresholds Further the book also provides a unified review of recent results in the literature and creates a bridge with geometry by studying the validity of weak and strong maximum principles at infinity in the spirit of Omori Yau s Hessian and Laplacian principles and subsequent improvements

Séminaire de théorie spectrale et géométrie ,2000 Biharmonic Submanifolds And Biharmonic Maps In Riemannian Geometry Ye-lin Ou, Bang-yen Chen, 2020-04-04 The book aims to present a comprehensive survey on biharmonic submanifolds and maps from the viewpoint of Riemannian geometry It provides some basic knowledge and tools used in the study of the subject as well as an overall picture of the development of the subject with most up to date important results Biharmonic submanifolds are submanifolds whose isometric immersions are biharmonic maps thus biharmonic submanifolds include minimal submanifolds as a subclass Biharmonic submanifolds also appeared in the study of finite type submanifolds in Euclidean spaces Biharmonic maps are maps between Riemannian manifolds that are critical points of the bienergy They are generalizations of harmonic maps and biharmonic functions which have many important applications and interesting links to many areas of mathematics and theoretical physics Since 2000 biharmonic submanifolds and maps have become a vibrant research field with a growing number of researchers around the world with many interesting results have been obtained This book containing basic knowledge tools for some fundamental problems and a comprehensive survey on the

study of biharmonic submanifolds and maps will be greatly beneficial for graduate students and beginning researchers who want to study the subject as well as researchers who have already been working in the field **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 The \$p\$-Harmonic Equation and Recent Advances in Analysis Pietro Poggi-Corradini,2005 these beautiful objec Comprised of papers from the IIIrd Prairie Analysis Seminar held at Kansas State University this book reflects the many directions of current research in harmonic analysis and partial differential equations Included is the work of the distinguished main speaker Tadeusz Iwaniec his invited guests John Lewis and Juan Manfredi and many other leading researchers The main topic is the so called p harmonic equation which is a family of nonlinear partial differential equations generalizing the usual Laplace equation This study of p harmonic equations touches upon many areas of analysis with deep relations to functional analysis potential theory and calculus of variations. The material is suitable for graduate students and research mathematicians interested in harmonic analysis and partial differential equations **Complex Analysis and Dynamical Systems IV** Mark L'vovich Agranovskiĭ,2011 The papers in this volume cover a wide variety of topics in differential geometry general relativity and partial differential equations In addition there are several articles dealing with various aspects of Lie groups and mathematics physics Taken together the articles provide the reader with a panorama of activity in general relativity and partial differential equations drawn by a number of leading figures in the field The companion volume Contemporary Mathematics Volume 553 is devoted to function theory and optimization Discrete and **Continuous Dynamical Systems** ,2002 Revista Matemática Iberoamericana ,2012 Proceedings of the 4th European Conference, Elliptic and Parabolic Problems Josef Bemelmans, 2002 This book provides an overview of the state of the art in important subjects including besides elliptic and parabolic issues geometry free boundary problems fluid mechanics evolution problems in general calculus of variations homogenization control modeling and numerical analysis Topics in the Calculus of Variations Martin Fuchs, 2012-12-06 This report grew out of a series of lectures given at the East China Institute

of Technology Nanjing during September 1992 The purpose of this book is to make beginning research students familiar with some problems in varia tional calculus which have been chosen following my personal taste but with the attempt to illustrate two basic principles in the calculus of variations which are the fundamental question of existence of generalized solutions and closely related the question of regularity Chapter one is devoted to the study of variational integrals for vectorvalued functions which began with the pioneering work of Morrey 68 in the thirties We concentrate on problems where also nonlinear side conditions are imposed on the classes of admissi ble comparison functions As special cases we include mappings whose range is forced to lie in some Riemannian manifold possibly with boundary or functions whose Jacobian is required to be strictly positive The variational integrals under consideration are typically nonquadratic with respect to the gradient which immediately leads us to classes of degenerate elliptic systems Let us mention some of the most important applications p harmonic maps between Riemannian manifolds systems of degenerate variational inequalities model problems in nonlinear elasticity Usually by working in appropriate Sobolev spaces the existence of gener alized solutions is rather easy to establish see 7 but leads to apriori dis continuous functions

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