JON T. PITTS

Existence and Regularity of Minimal Surfaces on Riemannian Manifolds. (MN-27)

Minimal Surfaces In Riemannian Manifolds

Jon T. Pitts

Minimal Surfaces In Riemannian Manifolds:

Existence and Regularity of Minimal Surfaces on Riemannian Manifolds Jon T. Pitts,2014-07-14 Mathematical No ex 27 Originally published in 1981 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 *Minimal Surfaces in Riemannian Manifolds* Min Ji,Guang Yin Wang,1993 A multiple solution theory to the Plateau problem in a Riemannian manifold is established In italic capital S superscript italic n the existence of two solutions to this problem is obtained The Morse Tompkins Shiffman Theorem is extended to the case when the ambient space admits no minimal sphere Existence and Regularity of Minimal Surfaces on Riemannian Manifolds Jon T. Pitts,2014 *Introduction to Global Analysis* John Douglas Moore,2017-12-15 During the last century global analysis was one of the main sources of interaction between geometry and topology One might argue that the core of this subject is Morse theory according to which the critical points of a generic smooth proper function on a manifold determine the homology of the manifold Morse envisioned applying this idea to the calculus of variations including the theory of periodic motion in classical mechanics by approximating the space of loops on by a finite dimensional manifold of high dimension Palais and Smale reformulated Morse s calculus of variations in terms of infinite dimensional manifolds and these infinite dimensional manifolds were found useful for studying a wide variety of nonlinear PDEs This book applies infinite dimensional manifold theory to the Morse theory of closed geodesics in a Riemannian manifold It then describes the problems encountered when extending this theory to maps from surfaces instead of curves It treats critical point theory for closed parametrized minimal surfaces in a compact Riemannian manifold establishing Morse inequalities for perturbed versions of the energy function on the mapping space It studies the bubbling which occurs when the perturbation is turned off together with applications to the existence of closed minimal surfaces The Morse Sard theorem is used to develop transversality theory for both closed geodesics and closed minimal surfaces This book is based on lecture notes for graduate courses on Topics in Differential Geometry taught by the author over several years The reader is assumed to have taken basic graduate courses in differential geometry and algebraic topology Minimal Surfaces in Riemannian Manifolds Ji Min,Wang Guang Yin,1990 *Minimal Surfaces in Riemannian Manifolds* Min Ji,2014-08-31 This monograph studies the structure of the set of all coboundary minimal surfaces in Riemannian manifolds The authors establish on a solid analytical foundation a flexible topological index theory which proves useful for the study of minimal surfaces One of the highlights of the work is the result that for every Jordan curve on the standard n sphere there exist at least two minimal surfaces bounded by the curve **Minimal Submanifolds And Related Topics** Yuanlong Xin,2003-12-15 The Bernstein problem and the

Plateau problem are central topics in the theory of minimal submanifolds This important book presents the Douglas Rado solution to the Plateau problem but the main emphasis is on the Bernstein problem and its new developments in various directions the value distribution of the Gauss image of a minimal surface in Euclidean 3 space Simons work for minimal graphic hypersurfaces and author s own contributions to Bernstein type theorems for higher codimension The author also introduces some related topics such as submanifolds with parallel mean curvature Weierstrass type representation for surfaces of mean curvature 1 in hyperbolic 3 space and special Lagrangian submanifolds **Minimal Surfaces** A. T. Fomenko,1993 This book contains recent results from a group focusing on minimal surfaces in the Moscow State University seminar on modern geometrical methods headed by A V Bolsinov A T Fomenko and V V Trofimov The papers collected here fall into three areas one dimensional minimal graphs on Riemannian surfaces and the Steiner problem two dimensional minimal surfaces and surfaces of constant mean curvature in three dimensional Euclidean space and multidimensional globally minimal and harmonic surfaces in Riemannian manifolds The volume opens with an exposition of several important problems in the modern theory of minimal surfaces that will be of interest to newcomers to the field Prepared with attention to clarity and accessibility these papers will appeal to mathematicians physicists and other researchers interested in the application of geometrical methods to specific problems Seminar On Minimal Submanifolds. (AM-103), Volume 103 Enrico Bombieri,2016-03-02 A classic treatment of minimal submanifolds from the acclaimed Annals of Mathematics Studies series Princeton University Press is proud to have published the Annals of Mathematics Studies since 1940 One of the oldest and most respected series in science publishing it has included many of the most important and influential mathematical works of the twentieth century The series continues this tradition as Princeton University Press publishes the major works of the twenty first century To mark the continued success of the series all books are available in paperback and as ebooks Minimal Submanifolds And Related Topics (Second Edition) Yuanlong Xin,2018-08-03 In the theory of minimal submanifolds Bernstein s problem and Plateau s problem are central topics This important book presents the Douglas Rado solution to Plateau s problem but the main emphasis is on Bernstein s problem and its new developments in various directions the value distribution of the Gauss image of a minimal surface in Euclidean 3 space Simons work for minimal graphic hypersurfaces and the author s own contributions to Bernstein type theorems for higher codimension The author also introduces some related topics such as submanifolds with parallel mean curvature Weierstrass type representation for surfaces of mean curvature 1 in hyperbolic 3 space and special Lagrangian submanifolds This new edition contains the author s recent work on the Lawson Osserman s problem for higher codimension and on Chern s problem for minimal hypersurfaces in the sphere Both Chern s problem and Lawson Osserman s problem are important problems in minimal surface theory which are still unsolved In addition some new techniques were developed to address those problems in detail which are of interest in the field of geometric analysis On the regularity of minimal surfaces with free boundaries in

<u>Riemannian manifolds</u> Jürgen Jost,1986　　*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 const and leads to curvature estimates for stable immersed cmc surfaces and to Nitsche s uniqueness theorem andTomi 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　　**On the Regularity of Minimal Surfaces with Free Boundaries in Riemannian Manifolds** J. Jost,1986　　**Minimal Submanifolds in Pseudo-Riemannian Geometry** Henri Anciaux,2011 Since the foundational work of Lagrange on the differential equation to be satisfied by a minimal surface of the Euclidean space the theory of minimal submanifolds have undergone considerable developments involving techniques from related areas such as the analysis of partial differential equations and complex analysis On the other hand the relativity theory has led to the study of pseudo Riemannian manifolds which turns out to be the most general framework for the study of minimal submanifolds However most of the recent books on the subject still present the theory only in the Riemannian case For the first time this textbook provides a self contained and accessible introduction to the subject in the general setting of pseudo Riemannian geometry only assuming from the reader some basic knowledge about manifold theory Several classical results such as the Weierstrass representation formula for minimal surfaces and the minimizing properties of complex submanifolds are presented in full generality without sacrificing the clarity of exposition Finally a number of very recent results on the subject including the classification of equivariant minimal hypersurfaces in pseudo Riemannian space forms and the characterization of minimal Lagrangian surfaces in some pseudo Khler manifolds are given　　<u>Riemannian Geometry and Geometric Analysis</u> Jürgen Jost,2008-06-24 This established reference work continues to lead its readers to some of the hottest topics of contemporary mathematical research This new edition introduces and explains the ideas of the parabolic methods that have recently found such spectacular success in the work of Perelman at the examples of closed geodesics and harmonic forms It also discusses further examples of geometric variational problems from quantum field theory another source of profound new ideas and methods in geometry 　　**Min-Max Constructions of Minimal Surfaces in Closed Riemannian Manifolds** Dominik Tasnády,2011　　<u>A Survey of Minimal Surfaces</u> Robert Osserman,2013-12-10 Newly updated accessible study covers parametric and non parametric surfaces isothermal parameters Bernstein s theorem much more including such recent developments as new work on Plateau s problem and on isoperimetric inequalities Clear comprehensive examination provides profound insights into

crucial area of pure mathematics 1986 edition Index **Minimal Surfaces: Boundary value problems** Ulrich Dierkes,1992 <u>Lectures on Minimal Submanifolds</u> H. Blaine Lawson,1980 **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

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