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# Almgren's Big Regularity Paper

Q-Valued Functions Minimizing  
Dirichlet's Integral and the  
Regularity of Area-Minimizing  
Rectifiable Currents up to  
Codimension 2

*edited by*

Vladimir Scheffer  
Jean E Taylor

World Scientific





# Almgrens Big Regularity Paper

**Donatella Daniell, Nicola  
Garofalo, Arshak Petrosyan, Tung To**



## **Almgrens Big Regularity Paper:**

Almgren's Big Regularity Paper Frederick J. Almgren, Vladimir Scheffer, Jean E. Taylor, 2000 Fred Almgren created the excess method for proving regularity theorems in the calculus of variations His techniques yielded Holder continuity except for a small closed singular set In the sixties and seventies Almgren refined and generalized his methods Between 1974 and 1984 he wrote a 1 700 page proof that was his most ambitious exposition of his ground breaking ideas Originally this monograph was available only as a three volume work of limited circulation The entire text is faithfully reproduced here This book gives a complete proof of the interior regularity of an area minimizing rectifiable current up to Hausdorff codimension 2 The argument uses the theory of  $Q$  valued functions which is developed in detail For example this work shows how first variation estimates from squash and squeeze deformations yield a monotonicity theorem for the normalized frequency of oscillation of a  $Q$  valued function that minimizes a generalized Dirichlet integral The principal features of the book include an extension theorem analogous to Kirsbraun's theorem and theorems on the approximation in mass of nearly flat mass minimizing rectifiable currents by graphs and images of Lipschitz  $Q$  valued functions **Almgren's Big Regularity Paper,**

**Q-valued Functions Minimizing Dirichlet's Integral And The Regularity** Vladimir Scheffer, Jean E Taylor, 2000-06-30 Fred Almgren exploited the excess method for proving regularity theorems in the calculus of variations His techniques yielded Holder continuous differentiability except for a small closed singular set In the sixties and seventies Almgren refined and generalized his methods Between 1974 and 1984 he wrote a 1 700 page proof that was his most ambitious development of his ground breaking ideas Originally this monograph was available only as a three volume work of limited circulation The entire text is faithfully reproduced here This book gives a complete proof of the interior regularity of an area minimizing rectifiable current up to Hausdorff codimension 2 The argument uses the theory of  $Q$  valued functions which is developed in detail For example this work shows how first variation estimates from squash and squeeze deformations yield a monotonicity theorem for the normalized frequency of oscillation of a  $Q$  valued function that minimizes a generalized Dirichlet integral The principal features of the book include an extension theorem analogous to Kirsbraun's theorem and theorems on the approximation in mass of nearly flat mass minimizing rectifiable currents by graphs and images of Lipschitz  $Q$  valued functions  $Q$ -Valued Functions Revisited Camillo De Lellis, Emanuele Nunzio Spadaro, 2011 In this memoir the authors revisit Almgren's theory of  $Q$  valued functions which are functions taking values in the space  $\mathcal{A}_Q(\mathbb{R}^n)$  of unordered  $Q$  tuples of points in  $\mathbb{R}^n$  In particular the authors give shorter versions of Almgren's proofs of the existence of  $\mathcal{A}_Q$  minimizing  $Q$  valued functions of their Holder regularity and of the dimension estimate of their singular set propose an alternative intrinsic approach to these results not relying on Almgren's biLipschitz embedding  $\mathcal{A}_Q(\mathbb{R}^n) \rightarrow \mathbb{R}^{N \times Q}$  improve upon the estimate of the singular set of planar  $\mathcal{A}_Q$  minimizing functions by showing that it consists of isolated points *2017 MATRIX Annals* Jan de Gier, Cheryl E. Praeger, Terence



Tao,2019-03-13 MATRIX is Australia's international and residential mathematical research institute. It facilitates new collaborations and mathematical advances through intensive residential research programs each 1-4 weeks in duration. This book is a scientific record of the eight programs held at MATRIX in its second year 2017: Hypergeometric Motives and Calabi-Yau Differential Equations; Computational Inverse Problems; Integrability in Low Dimensional Quantum Systems; Elliptic Partial Differential Equations of Second Order; Celebrating 40 Years of Gilbarg and Trudinger's Book; Combinatorics; Statistical Mechanics and Conformal Field Theory; Mathematics of Risk; Tutte Centenary Retreat; Geometric R Matrices from Geometry to Probability. The articles are grouped into peer-reviewed contributions and other contributions. The peer-reviewed articles present original results or reviews on a topic related to the MATRIX program; the remaining contributions are predominantly lecture notes or short articles based on talks or activities at MATRIX. *Geometric Analysis and Nonlinear Partial Differential Equations* Stefan Hildebrandt, Hermann Karcher, 2012-12-06 This book is not a textbook but rather a coherent collection of papers from the field of partial differential equations. Nevertheless, we believe that it may very well serve as a good introduction into some topics of this classical field of analysis which, despite of its long history, is highly modern and well prospering. Richard Courant wrote in 1950: "It has always been a temptation for mathematicians to present the crystallized product of their thought as a deductive general theory and to relegate the individual mathematical phenomenon into the role of an example. The reader who submits to the dogmatic form will be easily indoctrinated. Enlightenment, however, must come from an understanding of motives: live mathematical development springs from specific natural problems which can be easily understood but whose solutions are difficult and demand new methods or more general significance." We think that many, if not all, papers of this book are written in this spirit and will give the reader access to an important branch of analysis by exhibiting interesting problems worth to be studied. Most of the collected articles have an extensive introductory part describing the history of the presented problems as well as the state of the art and offer a well-chosen guide to the literature. This way, the papers became lengthier than customary these days, but the level of presentation is such that an advanced graduate student should find the various articles both readable and stimulating. Optimal Regularity and the Free Boundary in the Parabolic Signorini Problem Donatella Danielli, Nicola Garofalo, Arshak Petrosyan, Tung To, 2017-09-25 The authors give a comprehensive treatment of the parabolic Signorini problem based on a generalization of Almgren's monotonicity of the frequency. This includes the proof of the optimal regularity of solutions; classification of free boundary points; the regularity of the regular set and the structure of the singular set. *Proceedings Of The International Congress Of Mathematicians 2010 (Icm 2010) (In 4 Volumes) - Vol. I: Plenary Lectures And Ceremonies, Vols. II-IV: Invited Lectures* Rajendra Bhatia, Arup Pal, G. Rangarajan, V. Srinivas, M. Vanninathan, 2011-06-06 ICM 2010 proceedings comprises a four-volume set containing articles based on plenary lectures and invited section lectures, the Abel and Noether lectures as well as contributions based on lectures delivered by the recipients of the Fields Medal, the



Nevanlinna and Chern Prizes The first volume will also contain the speeches at the opening and closing ceremonies and other highlights of the Congress

**Harmonic Analysis and Applications** Carlos E. Kenig, 2020-12-14 The origins of the harmonic analysis go back to an ingenious idea of Fourier that any reasonable function can be represented as an infinite linear combination of sines and cosines Today's harmonic analysis incorporates the elements of geometric measure theory number theory probability and has countless applications from data analysis to image recognition and from the study of sound and vibrations to the cutting edge of contemporary physics The present volume is based on lectures presented at the summer school on Harmonic Analysis These notes give fresh concise and high level introductions to recent developments in the field often with new arguments not found elsewhere The volume will be of use both to graduate students seeking to enter the field and to senior researchers wishing to keep up with current developments

**Regularity of Free Boundaries in Obstacle-Type Problems** Arshak Petrosyan, Henrik Shahgholian, Nina Nikolaevna Ural't'seva, 2012 The regularity theory of free boundaries flourished during the late 1970s and early 1980s and had a major impact in several areas of mathematics mathematical physics and industrial mathematics as well as in applications Since then the theory continued to evolve Numerous new ideas techniques and methods have been developed and challenging new problems in applications have arisen The main intention of the authors of this book is to give a coherent introduction to the study of the regularity properties of free boundaries for a particular type of problems known as obstacle type problems The emphasis is on the methods developed in the past two decades The topics include optimal regularity nondegeneracy rescalings and blowups classification of global solutions several types of monotonicity formulas Lipschitz  $C^1$  as well as higher regularity of the free boundary structure of the singular set touch of the free and fixed boundaries and more The book is based on lecture notes for the courses and mini courses given by the authors at various locations and should be accessible to advanced graduate students and researchers in analysis and partial differential equations

**On the Boundary Behavior of Mass-Minimizing Integral Currents** Camillo De Lellis, Guido De Philippis, Jonas Hirsch, Annalisa Massaccesi, 2024-01-17 View the abstract

**Geometric Integration Theory** Steven G. Krantz, Harold R. Parks, 2008-12-15 This textbook introduces geometric measure theory through the notion of currents Currents continuous linear functionals on spaces of differential forms are a natural language in which to formulate types of extremal problems arising in geometry and can be used to study generalized versions of the Plateau problem and related questions in geometric analysis Motivating key ideas with examples and figures this book is a comprehensive introduction ideal for both self study and for use in the classroom The exposition demands minimal background is self contained and accessible and thus is ideal for both graduate students and researchers

**Sets of Finite Perimeter and Geometric Variational Problems** Francesco Maggi, 2012-08-09 The marriage of analytic power to geometric intuition drives many of today's mathematical advances yet books that build the connection from an elementary level remain scarce This engaging introduction to geometric measure theory bridges analysis and geometry taking readers



from basic theory to some of the most celebrated results in modern analysis The theory of sets of finite perimeter provides a simple and effective framework Topics covered include existence regularity analysis of singularities characterization and symmetry results for minimizers in geometric variational problems starting from the basics about Hausdorff measures in Euclidean spaces and ending with complete proofs of the regularity of area minimizing hypersurfaces up to singular sets of codimension 8 Explanatory pictures detailed proofs exercises and remarks providing heuristic motivation and summarizing difficult arguments make this graduate level textbook suitable for self study and also a useful reference for researchers Readers require only undergraduate analysis and basic measure theory

### **Variational Problems in Riemannian**

**Geometry** Paul Baird,Ahmad El Soufi,Ali Fardoun,Rachid Regbaoui,2012-12-06 This book collects invited contributions by specialists in the domain of elliptic partial differential equations and geometric flows There are introductory survey articles as well as papers presenting the latest research results Among the topics covered are blow up theory for second order elliptic equations bubbling phenomena in the harmonic map heat flow applications of scans and fractional power integrands heat flow for the  $p$  energy functional Ricci flow and evolution by curvature of networks of curves in the plane Geometry and Topology of Submanifolds and Currents Weiping Li,Shihshu Walter Wei,2015-08-25 The papers in this volume are mainly from the 2013 Midwest Geometry Conference held October 19 2013 at Oklahoma State University Stillwater OK and partly from the 2012 Midwest Geometry Conference held May 12 13 2012 at the University of Oklahoma Norman OK The papers cover recent results on geometry and topology of submanifolds On the topology side topics include Plateau problems Voevodsky's motivic cohomology Reidemeister zeta function and systolic inequality and freedom in 2 and 3 dimensional manifolds On the geometry side the authors discuss classifying isoparametric hypersurfaces and review Hartogs triangle finite volume flows nonexistence of stable  $p$  currents and a generalized Bernstein type problem The authors also show that the interaction between topology and geometry is a key to deeply understanding topological invariants and the geometric problems

Geometric Measure Theory and Free Boundary Problems Guido De Philippis,Xavier Ros-Oton,Georg S. Weiss,2021-03-23 This volume covers contemporary aspects of geometric measure theory with a focus on applications to partial differential equations free boundary problems and water waves It is based on lectures given at the 2019 CIME summer school Geometric Measure Theory and Applications From Geometric Analysis to Free Boundary Problems which took place in Cetraro Italy under the scientific direction of Matteo Focardi and Emanuele Spadaro Providing a description of the structure of measures satisfying certain differential constraints and covering regularity theory for Bernoulli type free boundary problems and water waves as well as regularity theory for the obstacle problems and the developments leading to applications to the Stefan problem this volume will be of interest to students and researchers in mathematical analysis and its applications

**Geometric Relativity** Dan A. Lee,2021-12-20 Many problems in general relativity are essentially geometric in nature in the sense that they can be understood in terms of Riemannian geometry and partial differential equations This book is



centered around the study of mass in general relativity using the techniques of geometric analysis. Specifically, it provides a comprehensive treatment of the positive mass theorem and closely related results such as the Penrose inequality, drawing on a variety of tools used in this area of research, including minimal hypersurfaces, conformal geometry, inverse mean curvature flow, conformal flow, spinors, and the Dirac operator, marginally outer trapped surfaces, and density theorems. This is the first time these topics have been gathered into a single place and presented with an advanced graduate student audience in mind. Several dozen exercises are also included. The main prerequisite for this book is a working understanding of Riemannian geometry and basic knowledge of elliptic linear partial differential equations, with only minimal prior knowledge of physics required. The second part of the book includes a short crash course on general relativity, which provides background for the study of asymptotically flat initial data sets satisfying the dominant energy condition.

*Lectures on Differential Geometry* Bennett Chow, Yutze Chow, 2024-10-07. Differential geometry is a subject related to many fields in mathematics and the sciences. The authors of this book provide a vertically integrated introduction to differential geometry and geometric analysis. The material is presented in three distinct parts: an introduction to geometry via submanifolds of Euclidean space, a first course in Riemannian geometry, and a graduate special topics course in geometric analysis, and it contains more than enough content to serve as a good textbook for a course in any of these three topics. The reader will learn about the classical theory of submanifolds, smooth manifolds, Riemannian comparison geometry, bundles, connections, and curvature, the Chern-Gauss-Bonnet formula, harmonic functions, eigenfunctions, and eigenvalues on Riemannian manifolds, minimal surfaces, the curve shortening flow, and the Ricci flow on surfaces. This will provide a pathway to further topics in geometric analysis, such as Ricci flow, used by Hamilton and Perelman to solve the Poincaré and Thurston geometrization conjectures, mean curvature flow, and minimal submanifolds. The book is primarily aimed at graduate students in geometric analysis, but it will also be of interest to postdoctoral researchers and established mathematicians looking for a refresher or deeper exploration of the topic.

**On the Size of the Singular Set of Minimizing Harmonic Maps** Katarzyna Mazowiecka, Michał Miśkiewicz, Armin Schikorra, 2024-12-13. View the abstract. [Rectifiability](#) Pertti Mattila, 2023-01-12. Rectifiable sets, measures, currents, and varifolds are foundational concepts in geometric measure theory. The last four decades have seen the emergence of a wealth of connections between rectifiability and other areas of analysis and geometry, including deep links with the calculus of variations and complex and harmonic analysis. This short book provides an easily digestible overview of this wide and active field, including discussions of historical background, the basic theory in Euclidean and non-Euclidean settings, and the appearance of rectifiability in analysis and geometry. The author avoids complicated technical arguments and long proofs, instead giving the reader a flavour of each of the topics in turn while providing full references to the wider literature in an extensive bibliography. It is a perfect introduction to the area for researchers and graduate students who will find much inspiration for their own research inside.



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