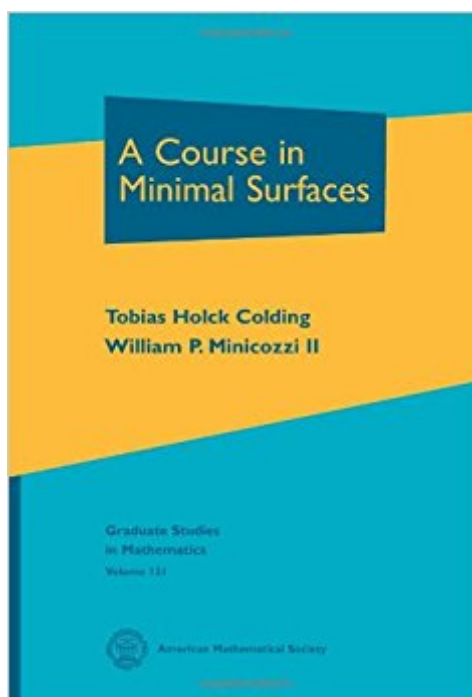


The book was found

A Course In Minimal Surfaces (Graduate Studies In Mathematics)



Synopsis

Minimal surfaces date back to Euler and Lagrange and the beginning of the calculus of variations. Many of the techniques developed have played key roles in geometry and partial differential equations. Examples include monotonicity and tangent cone analysis originating in the regularity theory for minimal surfaces, estimates for nonlinear equations based on the maximum principle arising in Bernstein's classical work, and even Lebesgue's definition of the integral that he developed in his thesis on the Plateau problem for minimal surfaces. This book starts with the classical theory of minimal surfaces and ends up with current research topics. Of the various ways of approaching minimal surfaces (from complex analysis, PDE, or geometric measure theory), the authors have chosen to focus on the PDE aspects of the theory. The book also contains some of the applications of minimal surfaces to other fields including low dimensional topology, general relativity, and materials science. The only prerequisites needed for this book are a basic knowledge of Riemannian geometry and some familiarity with the maximum principle.

Book Information

Series: Graduate Studies in Mathematics

Hardcover: 313 pages

Publisher: American Mathematical Society (April 1, 2011)

Language: English

ISBN-10: 0821853236

ISBN-13: 978-0821853238

Product Dimensions: 1 x 7.2 x 10.2 inches

Shipping Weight: 1.8 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 starsÂ Â See all reviewsÂ (1 customer review)

Best Sellers Rank: #1,348,698 in Books (See Top 100 in Books) #186 inÂ Books > Science &

Math > Mathematics > Geometry & Topology > Differential Geometry #755 inÂ Books > Textbooks > Science & Mathematics > Mathematics > Geometry

Customer Reviews

Perfect

[Download to continue reading...](#)

A Course in Minimal Surfaces (Graduate Studies in Mathematics) Riemann Surfaces (Oxford Graduate Texts in Mathematics) Graduate Programs in Business, Education, Information Studies,

Law & Social Work 2017 (Peterson's Graduate Programs in Business, Education, Health, Information Studies, Law and Social Work) Discontinuous Groups and Riemann Surfaces (AM-79): Proceedings of the 1973 Conference at the University of Maryland. (AM-79) (Annals of Mathematics Studies) A First Course in Modular Forms (Graduate Texts in Mathematics) Algebraic Geometry: A First Course (Graduate Texts in Mathematics) (v. 133) Insider's Guide to Graduate Programs in Clinical and Counseling Psychology (Insider's Guide to Graduate Programs in Clinical & Counseling Psychology) General Investigations of Curved Surfaces: Edited with an Introduction and Notes by Peter Pesic (Dover Books on Mathematics) Differential Geometry of Curves and Surfaces: Revised and Updated Second Edition (Dover Books on Mathematics) Spectral Theory of Infinite-Area Hyperbolic Surfaces (Progress in Mathematics) The K-Book: An Introduction to Algebraic K-Theory (Graduate Studies in Mathematics) Partial Differential Equations (Graduate Studies in Mathematics, Vol. 19) Topics in Optimal Transportation (Graduate Studies in Mathematics, Vol. 58) Toric Varieties (Graduate Studies in Mathematics) Classical Groups and Geometric Algebra (Graduate Studies in Mathematics) An Epsilon of Room Real Analysis: Pages from Year Three of a Mathematical Blog (Graduate Studies in Mathematics) Fourier Analysis (Graduate Studies in Mathematics) Algebra: Chapter 0 (Graduate Studies in Mathematics) Number Theory: Algebraic Numbers and Functions (Graduate Studies in Mathematics) Photochemistry on Solid Surfaces (Studies in Surface Science and Catalysis)

[Dmca](#)