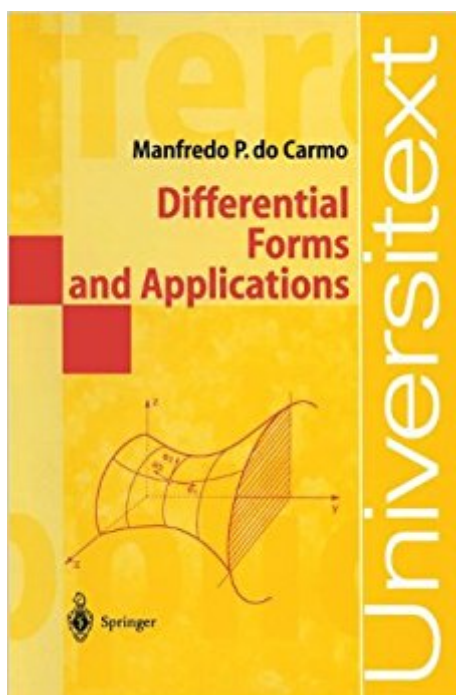


The book was found

Differential Forms And Applications (Universitext)



Synopsis

An application of differential forms for the study of some local and global aspects of the differential geometry of surfaces. Differential forms are introduced in a simple way that will make them attractive to "users" of mathematics. A brief and elementary introduction to differentiable manifolds is given so that the main theorem, namely Stokes' theorem, can be presented in its natural setting. The applications consist in developing the method of moving frames expounded by E. Cartan to study the local differential geometry of immersed surfaces in \mathbb{R}^3 as well as the intrinsic geometry of surfaces. This is then collated in the last chapter to present Chern's proof of the Gauss-Bonnet theorem for compact surfaces.

Book Information

Series: Universitext

Paperback: 118 pages

Publisher: Springer; 1st ed. 1994. Corr. 2nd printing 1998 edition (December 29, 2000)

Language: English

ISBN-10: 3540576185

ISBN-13: 978-3540576181

Product Dimensions: 6.1 x 0.3 x 9.2 inches

Shipping Weight: 9.6 ounces (View shipping rates and policies)

Average Customer Review: 4.2 out of 5 stars 3 customer reviews

Best Sellers Rank: #1,027,736 in Books (See Top 100 in Books) #79 in Books > Science & Math > Mathematics > Applied > Vector Analysis #128 in Books > Science & Math > Mathematics > Geometry & Topology > Differential Geometry #590 in Books > Science & Math > Mathematics > Applied > Differential Equations

Customer Reviews

M.P. Do Carmo Differential Forms and Applications "This book treats differential forms and uses them to study some local and global aspects of differential geometry of surfaces. Each chapter is followed by interesting exercises. Thus, this is an ideal book for a one-semester course." •ACTA SCIENTIARUM MATHEMATICARUM

Text: English (translation) Original Language: Portugese

This book is short, which could have been good. But it fails to be clear and even lacks explanation

of notations, which is in fact a formidable hurdle for beginners. Compared to Loring Tu's 'An Introduction to Manifolds', this book doesn't seem nearly as friendly.

Helpful

This is a short book suitable for people who have little background in differential forms, but need a quick and concise development of it.

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

Differential Forms and Applications (Universitext) Stochastic Differential Equations: An Introduction with Applications (Universitext) Functional Analysis, Sobolev Spaces and Partial Differential Equations (Universitext) Numerical Treatment of Partial Differential Equations (Universitext) An Introduction to Riemannian Geometry: With Applications to Mechanics and Relativity (Universitext) Differential Equations and Boundary Value Problems: Computing and Modeling (5th Edition) (Edwards/Penney/Calvis Differential Equations) [Differential Equations, Dynamical Systems, and an Introduction to Chaos [DIFFERENTIAL EQUATIONS, DYNAMICAL SYSTEMS, AND AN INTRODUCTION TO CHAOS BY Hirsch, Morris W. (Author) Mar-26-2012] By Hirsch, Morris W. (Author) [2012) [Paperback] Student's Solutions Manual for Fundamentals of Differential Equations 8e and Fundamentals of Differential Equations and Boundary Value Problems 6e Differential Equations: Computing and Modeling (5th Edition) (Edwards/Penney/Calvis Differential Equations) Applied Partial Differential Equations with Fourier Series and Boundary Value Problems (5th Edition) (Featured Titles for Partial Differential Equations) Ferri's Differential Diagnosis: A Practical Guide to the Differential Diagnosis of Symptoms, Signs, and Clinical Disorders, 2e (Ferri's Medical Solutions) Differential Diagnosis for Physical Therapists: Screening for Referral, 5e (Differential Diagnosis In Physical Therapy) Fundamentals of Differential Equations (8th Edition) (Featured Titles for Differential Equations) Student Solutions Manual to accompany Boyce Elementary Differential Equations 10e & Elementary Differential Equations with Boundary Value Problems 10e Differential Diagnosis for Physical Therapists: Screening for Referral, 4e (Differential Diagnosis In Physical Therapy) Tensors, Differential Forms, and Variational Principles (Dover Books on Mathematics) Cohomology and Differential Forms (Dover Books on Mathematics) Business and Legal Forms for Fine Artists (Business and Legal Forms Series) Business and Legal Forms for Theater, Second Edition (Business and Legal Forms Series) Business and Legal Forms for Illustrators (Business and Legal Forms Series)

Contact Us

DMCA

Privacy

FAQ & Help