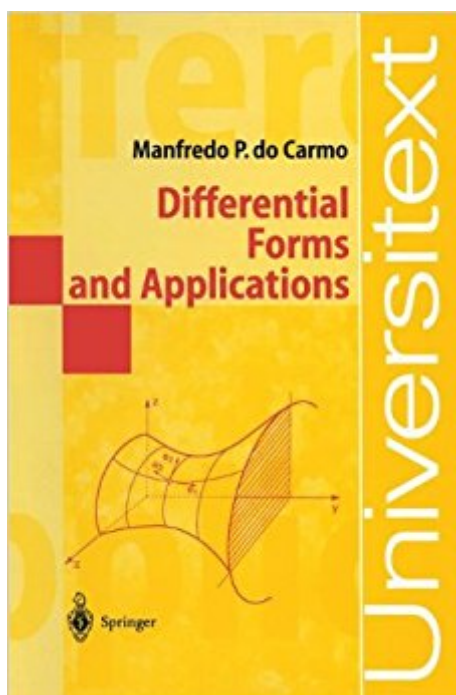


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Differential Forms And Applications (Universitext)



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

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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.

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