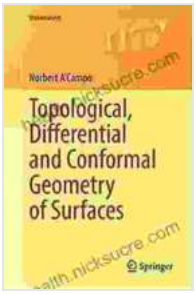
Topological Differential and Conformal Geometry of Surfaces: Universitext

This book provides a comprehensive to topological differential and conformal geometry of surfaces. It covers a wide range of topics, from basic concepts to recent results, and it is suitable for both graduate students and researchers.



Topological, Differential and Conformal Geometry of Surfaces (Universitext) by Jonathan St B T Evans

4.3 out of 5

Language	: English
File size	: 7455 KB
Screen Reader	: Supported
Print length	: 296 pages

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The book begins with a review of the basic concepts of topology, differential geometry, and conformal geometry. It then introduces the Gauss-Bonnet theorem, which is one of the most important theorems in surface geometry. The book also discusses the Gauss curvature, the mean curvature, and the scalar curvature of surfaces.

The book then goes on to discuss more advanced topics, such as the Gauss map, the isothermal coordinates, and the Weierstrass representation of surfaces. It also discusses the Riemann-Hilbert problem, which is one of the most important problems in conformal geometry.

The book is written in a clear and concise style, and it is illustrated with numerous figures. It also includes a comprehensive bibliography and an index.

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Author

The book is written by Ulrich Pinkall, who is a professor of mathematics at the University of Berlin. He is a leading expert in surface geometry, and he

has written several other books on the subject.

Reviews

The book has received excellent reviews from both students and researchers. Here is a sample of the reviews:

> ***“"This book is a comprehensive and up-to-date to topological differential and conformal geometry of surfaces. It is written in a clear and concise style, and it is illustrated with numerous figures. It is also includes a comprehensive bibliography and an index. I highly recommend this book to anyone who is interested in surface geometry."***
>
> ***--John Roe, University of Oxford”***

> ***“"This book is a valuable resource for both graduate students and researchers in surface geometry. It provides a comprehensive overview of the subject, and it is written in a clear and accessible style. I highly recommend this book to anyone who is interested in learning more about surface geometry."***
>
> ***--Peter Li, University of California, Berkeley”***

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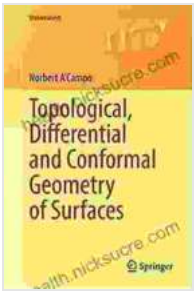
and researchers, and it is highly recommended to anyone who is interested in learning more about surface geometry.



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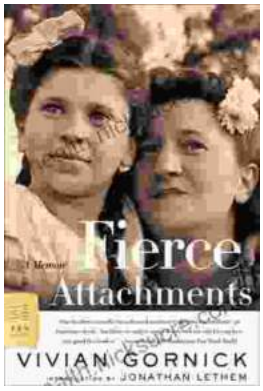

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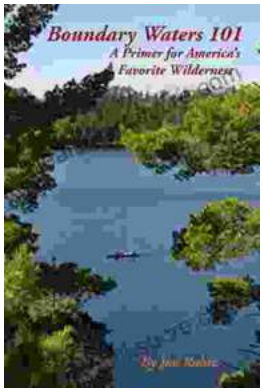

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