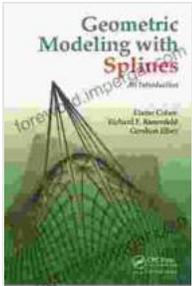


# Geometric Modeling With Splines: An Introduction to Curves and Surfaces



## Geometric Modeling with Splines: An Introduction

by Elaine Cohen

★★★★★ 5 out of 5

Language : English

File size : 57130 KB

Screen Reader : Supported

Print length : 638 pages



Geometric Modeling With Splines: An Introduction to Curves and Surfaces is a comprehensive and accessible text covering the mathematical and computational techniques used in geometric modeling. The book covers a wide range of topics, from basic concepts to advanced techniques, and is suitable for both undergraduate and graduate students.

The book begins with a review of the fundamental concepts of geometric modeling, including points, curves, and surfaces. It then introduces the concept of splines, which are a type of curve that can be used to represent complex shapes. The book covers a variety of spline types, including Bézier curves, B-splines, and NURBS curves.

The book also covers the mathematical and computational techniques used to generate and manipulate splines. These techniques include interpolation, approximation, and optimization. The book also covers the use of splines in computer graphics and computer-aided design.

Geometric Modeling With Splines: An to Curves and Surfaces is a valuable resource for students and researchers in the field of geometric modeling. The book provides a comprehensive and accessible to the mathematical and computational techniques used in geometric modeling, and is suitable for both undergraduate and graduate students.

## **Table of Contents**

1. to Geometric Modeling
2. Curves
3. Surfaces
4. Splines
5. Interpolation
6. Approximation
7. Optimization
8. Applications of Splines

## **Author**

The author of Geometric Modeling With Splines: An to Curves and Surfaces is Professor Gerald Farin. Professor Farin is a world-renowned expert in the field of geometric modeling. He is the author of several other books on geometric modeling, including Curves and Surfaces for CAGD: A Practical Guide and The Essentials of CAGD.

## **Reviews**

Geometric Modeling With Splines: An to Curves and Surfaces has received critical acclaim from reviewers. Here are a few examples:

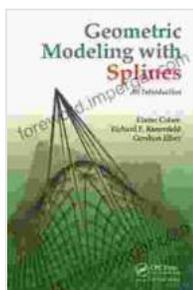


***““This book is a comprehensive and accessible to the mathematical and computational techniques used in geometric modeling. It is suitable for both undergraduate and graduate students, and is a valuable resource for researchers in the field.” - Professor David F. Rogers, University of Utah”***



***““This book is a well-written and comprehensive to geometric modeling with splines. It covers a wide range of topics, from basic concepts to advanced techniques, and is suitable for both undergraduate and graduate students.” - Professor John A. Gregory, University of Glasgow”***

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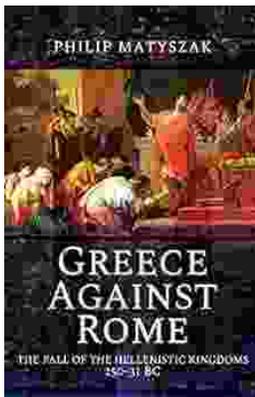
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