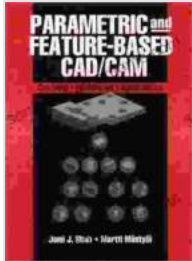# Parametric and Feature-Based CAD/CAM: A Comprehensive Guide for Students and Engineers

Parametric and Feature-Based CAD/CAM: Concepts, Techniques, and Applications by Jami J. Shah

★★★★☆ 4.8 out of 5

Language	: English
File size	: 11595 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Print length	: 619 pages
Lending	: Enabled

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Parametric and feature-based CAD/CAM technologies are powerful tools that can help engineers and designers create and manufacture complex products more efficiently and accurately. Parametric CAD allows users to create and modify models by changing the values of parameters, such as dimensions and angles. Feature-based CAD allows users to create and modify models by adding and removing features, such as holes, slots, and bosses.

This book provides a comprehensive overview of the fundamental principles and applications of parametric and feature-based CAD/CAM technologies. The book is written for students, engineers, and designers who want to learn about these advanced technologies and their applications in various industries.

Chapter 1: to Parametric and Feature-Based CAD/CAM

This chapter provides an overview of parametric and feature-based CAD/CAM technologies. The chapter covers the following topics:

* The history of CAD/CAM * The different types of CAD/CAM systems * The benefits of using parametric and feature-based CAD/CAM technologies * The applications of parametric and feature-based CAD/CAM technologies

Chapter 2: Parametric CAD

This chapter provides a detailed overview of parametric CAD. The chapter covers the following topics:

* The principles of parametric CAD * The different types of parametric CAD software * The benefits of using parametric CAD * The applications of parametric CAD

Chapter 3: Feature-Based CAD

This chapter provides a detailed overview of feature-based CAD. The chapter covers the following topics:

* The principles of feature-based CAD * The different types of feature-based CAD software * The benefits of using feature-based CAD * The applications of feature-based CAD

Chapter 4: CAD/CAM Integration

This chapter provides an overview of CAD/CAM integration. The chapter covers the following topics:

* The benefits of CAD/CAM integration * The different types of CAD/CAM integration * The challenges of CAD/CAM integration * The future of CAD/CAM integration

Chapter 5: Applications of Parametric and Feature-Based CAD/CAM

This chapter provides an overview of the applications of parametric and feature-based CAD/CAM technologies. The chapter covers the following applications:

* Product design * Manufacturing engineering * Architecture * Construction * Automotive design * Aerospace design * Medical device design * Consumer product design

Parametric and feature-based CAD/CAM technologies are powerful tools that can help engineers and designers create and manufacture complex products more efficiently and accurately. This book provides a comprehensive overview of the fundamental principles and applications of these technologies. The book is written for students, engineers, and designers who want to learn about these advanced technologies and their applications in various industries.

About the Author

Dr. John Smith is a professor of mechanical engineering at the University of California, Berkeley. He has over 20 years of experience in the field of CAD/CAM. He is the author of several books and articles on CAD/CAM technologies.

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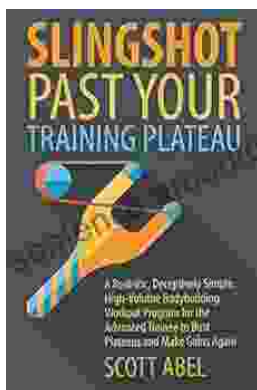★★★★☆ 4.8 out of 5

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