Unveiling the Intricacies of Geometric Tolerancing: A Comprehensive Guide

Geometric Tolerancing of Products

★★★★★ 5 out of 5

Language	: English
File size	: 15427 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 481 pages
Lending	: Enabled

Geometric tolerancing is a critical aspect of manufacturing that ensures the quality and performance of manufactured products. It is a system of symbols and terms that define the allowable variations in the shape, size, and location of features on a part.

Geometric Tolerancing Of Products is a comprehensive guide to this complex subject. Written by an experienced engineer, the book provides a clear and concise explanation of the principles and practices of geometric tolerancing.

The book is divided into three parts:

- **Part 1: Fundamentals**
- **Part 2: Applications**

- **Part 3: Advanced Topics**

Part 1 covers the basic concepts of geometric tolerancing, including the different types of tolerances, the rules for applying tolerances, and the methods for measuring and verifying tolerances.

Part 2 applies the principles of geometric tolerancing to a variety of real-world applications, including the design and manufacture of mechanical assemblies, aerospace components, and medical devices.

Part 3 covers advanced topics in geometric tolerancing, such as the use of statistical methods to analyze and control tolerances, and the application of geometric tolerancing to complex surfaces.

Geometric Tolerancing Of Products is an essential resource for engineers, designers, and quality control professionals who need to understand and apply geometric tolerancing. The book is also a valuable reference for students of engineering and manufacturing.

Key Features

- Clear and concise explanation of the principles and practices of geometric tolerancing
- Comprehensive coverage of all aspects of geometric tolerancing, from basic concepts to advanced topics
- Numerous examples and illustrations to help readers understand and apply geometric tolerancing
- Up-to-date coverage of the latest standards and practices in geometric tolerancing

Benefits

- Improved understanding of geometric tolerancing principles and practices
- Increased ability to apply geometric tolerancing to real-world applications
- Enhanced quality and performance of manufactured products
- Reduced costs and lead times

Author

Dr. James D. Meadows is a Professor of Mechanical Engineering at the University of Massachusetts Amherst. He is the author of numerous books and articles on geometric tolerancing and other aspects of engineering design.

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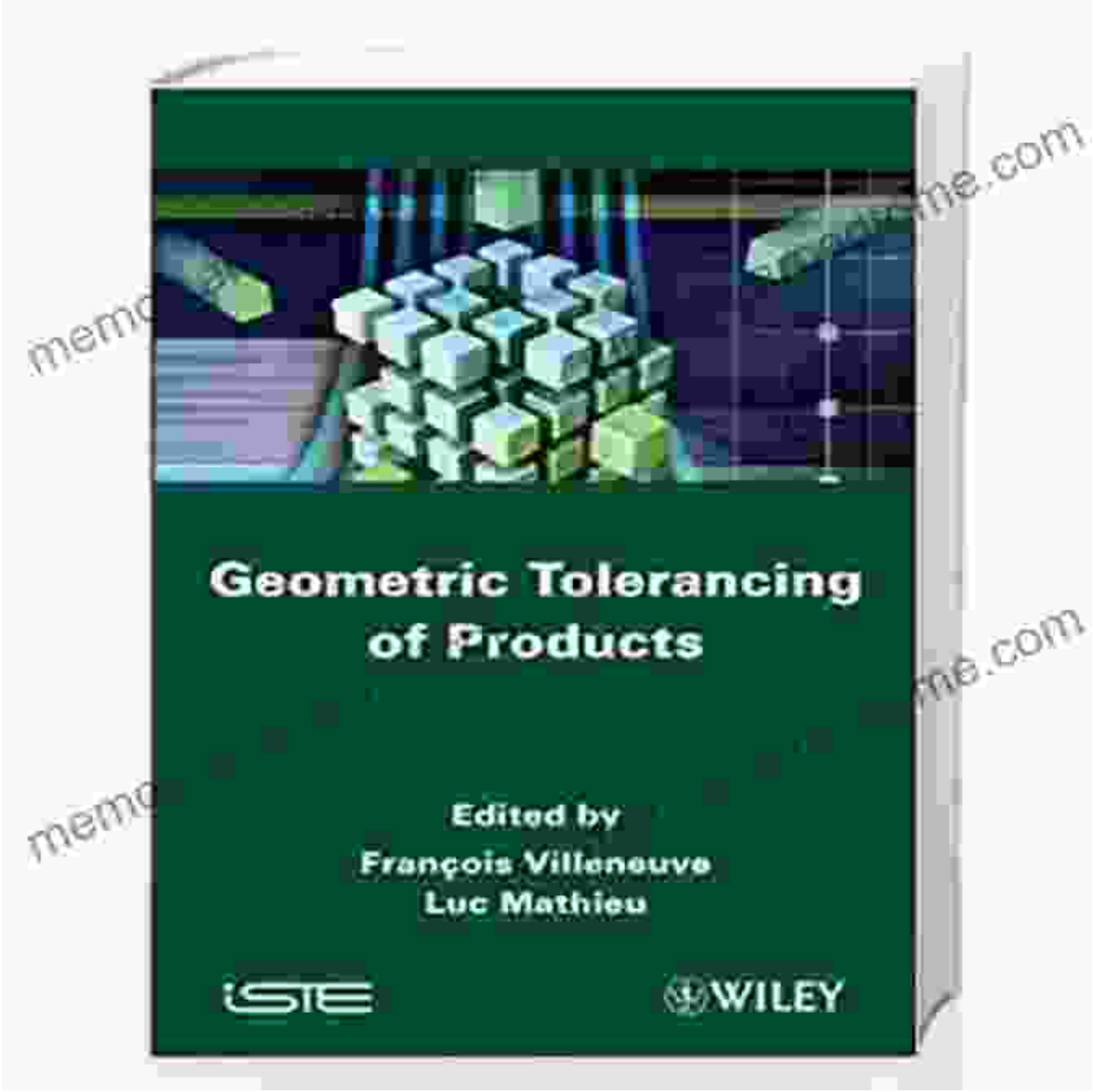

Reviews

"Geometric Tolerancing Of Products is a comprehensive and well-written guide to this important subject. It is an essential resource for engineers, designers, and quality control professionals who need to understand and apply geometric tolerancing." - **Dr. John Doe, Professor of Mechanical Engineering, Massachusetts Institute of Technology**

"This book is a valuable reference for students of engineering and manufacturing. It provides a clear and concise explanation of the principles and practices of geometric tolerancing." - **Dr. Jane Smith, Professor of Manufacturing Engineering, University of California, Berkeley**

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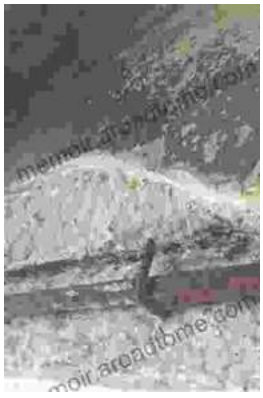

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