## Computer Graphics and Product Modeling for CAD/CAM



Filesize: 5.5 MB

## Reviews

Very useful for all group of people. It is amongst the most incredible pdf i actually have read through. Its been written in an extremely straightforward way and it is just right after i finished reading through this pdf by which basically modified me, change the way i think. (Felicia Nikolaus)

## COMPUTER GRAPHICS AND PRODUCT MODELING FOR CAD/CAM



Narosa Publishing House, 2012. Softcover. Book Condition: New. Product design and manufacturing activities worldwide are facing several challenges due to shorter product life cycles, frequent design revisions and the need for shortest time to market. To meet these challenges, Computer Aided Design and Manufacturing (CAD/CAM) technology has been developed during the past two decades to automate and integrate various activities of the product cycle. Computer Graphics plays a key role in CAD/CAM to create Virtual world for digital prototyping. Graphics enables a designer to interactively synthesize various product shapes, visualize them in different settings and analyze their functional performance. Product Modeling forms the heart of any CAD/CAM activity as it creates a central repository of product data to suit the down-line application tasks like FEM analysis, CNC programming, rapid prototyping etc. Product model creation, validation, representation and interpretation are thus, the key issues which directly govern the efficacy of CAD/CAM. This book is primarily written with a view to present the fundamentals of Computer Graphics and Product Modeling for CAD/CAM applications. In essence, it will present the mathematical basis for 3 D object modeling, transformation and visualization, geometric design of curves and surfaces, Solid and surface modeling, Feature based and Constraint based modeling and Product Data Exchange standards. The book includes solved problems, practice problems and review questions. It is expected to serve as a foundational text book for senior undergraduate and postgraduate students of Mechanical Engineering. Table of Contents Preface / Introduction / Basics of Computer Graphics / Geometric Transformations / Projection Transformations / Geometric Design of Planar and Space curves / Design of Surfaces / Geometric Modeling of 3D Objects / Constructive Solid Geometry and Feature based Part Modeling / Product Data Exchange Standards / Bibliography / Index. Printed Pages: 218.

- ₽ R
  - Read Computer Graphics and Product Modeling for CAD/CAM Online
- Download PDF Computer Graphics and Product Modeling for CAD/CAM

## **Related Kindle Books**



Your Pregnancy for the Father to Be Everything You Need to Know about Pregnancy Childbirth and Getting Ready for Your New Baby by Judith Schuler and Glade B Curtis 2003 Paperback

Book Condition: Brand New. Book Condition: Brand New.

Read Book »



Animation for Kids with Scratch Programming: Create Your Own Digital Art, Games, and Stories with Code

Mentorscloud LLC, United States, 2015. Paperback. Book Condition: New. 254 x 178 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Think Logically. Present Artistically. The myth: Programming is only for kids who...

Read Book »



Minecraft Book: An Unofficial Minecraft Book (Minecraft Book, Minecraft Storybook, Minecraft Book for Children, Minecraft Books, Minecraft Diaries, Minecraft Diary, Minecraft Book for Kids)

Createspace Independent Publishing Platform, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*\*.Learn how Jonathan, a small boy, became a famous author...

Read Book »



The Web Collection, Revealed: Adobe Creative Cloud Update (Mixed media product)

Cengage Learning, Inc, United States, 2013. Mixed media product. Book Condition: New. Premium ed. 241 x 193 mm. Language: English . Brand New Book. Your Adobe Creative Cloud package includes two components: 1) Online access...

Read Book »



Design Collection Creative Cloud Revealed Update (Mixed media product)

Cengage Learning, Inc, United States, 2013. Mixed media product. Book Condition: New. 239 x 193 mm. Language: English . Brand New Book. Your Adobe Creative Cloud package includes two components: 1) Online access to Adobe...

Read Book »