



Parametric and Feature-Based CAD/CAM: Concepts, Techniques, and Applications

By Jami J. Shah, Martti Mäntylä

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The book is the complete introduction and applications guide to this new technology. This book introduces the reader to features and gives an overview of geometric modeling techniques, discusses the conceptual development of features as modeling entities, illustrates the use of features for a variety of engineering design applications, and develops a set of broad functional requirements and addresses high level design issues.

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Editorial Review

From the Publisher

Designed to make it easy to find, understand and use cutting edge techniques in parametric and feature based CAD/CAM. The authors provide comprehensive coverage of all topics related to features--from fundamental concepts to applications. They include numerous specific techniques, algorithms, data structures plus a program code which implementers will find useful. Reviews basic principles of CAD/CAM such as curve, surface and solid modeling. Explains how to automate geometric reasoning related to design, product performance evaluation, manufacturability and inspection.

From the Back Cover

This comprehensive new text and reference book makes it easier to find, understand, and use the state-of-the-art techniques of parametric and feature-based CAD/CAM

Parametric and Feature-Based CAD/CAM is the complete introduction and applications guide to this exciting new technology. It gives engineers, designers, software developers, and graduate students a solid understanding of the basic concepts of features and their applications, and provides a broad overview of the whole range of geometric modeling techniques. Written by two of the leading experts in CAD/CAM, this authoritative book: Includes specific techniques, algorithms, data structures, and computer code that enable the reader to immediately implement the material in the book Assists the reader in automating geometric reasoning related to design, product performance evaluation, manufacturability, and inspection Covers feature types such as geometry and deviations from standard geometric forms; technological features; and material and assembly features

Due to the recent commercial availability of parametric and feature-based CAD/CAM, engineers, developers, and designers have access to excitingly powerful new tools. Design changes can now be made with a few high-level commands, and then automatically propagated through the model. Engineering analysis, manufacturing, and inspection can now be automated and integrated with design to a higher degree than ever before.

Parametric and Feature-Based CAD/CAM offers the reader comprehensive coverage of all topics related to features--from fundamental concepts to applications--and includes specific techniques, algorithms, data structures, and program code. For the first time, information that had required time-consuming literature searches has been gathered and organized for easy perusal. Written by recognized experts in CAD/CAM, this invaluable guide: Illustrates the use of features in design and manufacturing applications, and offers systematic methods for identification, formalization, and validation of features in various domains Provides a detailed treatment of various main architectural issues in specifying, designing, and implementing feature-based systems, and describes a wide range of modules in which feature-based modeling systems may be synthesized Discusses the conceptual development of features as modeling entities and describes their properties and their relationship to other modeling entities Offers background material on product modeling and provides a review of geometric modeling principles

For engineers, designers, software developers, and graduate students, Parametric and Feature-Based

CAD/CAM offers a complete, comprehensive introduction and applications guide to this exciting new technology.

About the Author

JAMI J. SHAH is Professor of Design and Manufacturing in the Department of Mechanical and Aerospace Engineering at Arizona State University. Widely published in the technical literature, Professor Shah has been actively involved in research in geometric modeling, feature-based design, manufacturability analysis, machining process planning, and data exchange standards. Prior to his academic career, he worked in the manufacturing sector where he continues to serve as a consultant.

MARTTI MNTYL is Professor of Information Technology in the Laboratory of Information Processing Science at the Helsinki University of Technology, Finland, where he is the head of research teams in product modeling and realization, rapid prototyping, assembly robotics, usability engineering, and analysis and measurement of CIM systems. He is a member of the editorial board of Computer-Aided Design and a member of the executive committee of the Eurographics Association.

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