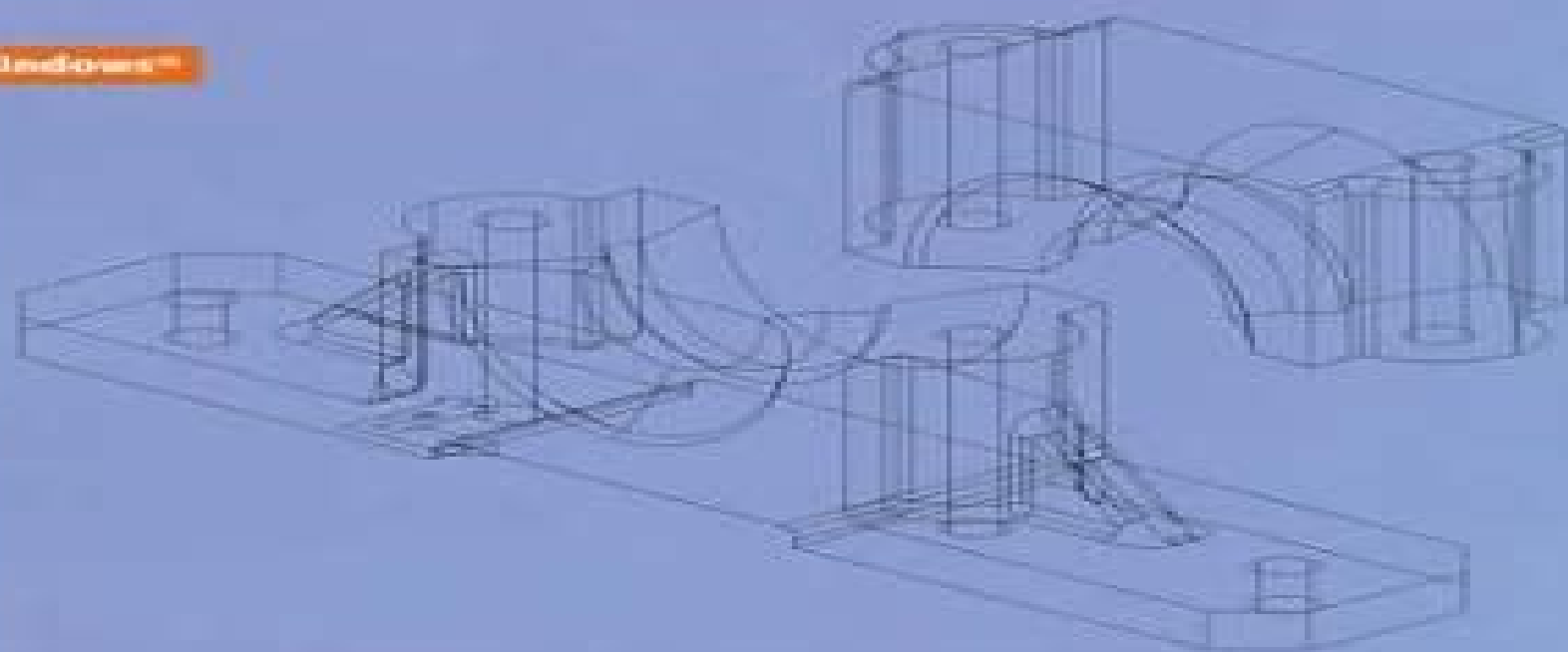


# Mastering Mechanical Desktop: Native Solids



RON K. C. CHENG

PROJECT-BASED TRAINING FOR ENGINEERING PROFESSIONALS

# Mastering Mechanical Desktop Native Solids

**Guillaume Favre**



## **Mastering Mechanical Desktop Native Solids:**

*Mastering Mechanical Desktop* Ron Cheng, 1998 Cheng's concise guide to NATIVE SOLIDS teaches student and professional users of AutoCAD and MECHANICAL DESKTOP how to create three dimensional solids objects. Users begin by creating primitive solids and then combine two or more of these to form complex solids using the Boolean operations Union and Subtract. The book then introduces users to the process of extruding and revolving 2D regions and polylines to create solids and applying the Boolean operation Intersection in model making. In later chapters users learn how to develop thin shell solids with internal bosses and webs, how to apply utility commands on a solid and how to output orthographic and 3D views of a solid model to a paper document. The book concludes with a full blown architectural project that enables users to explore constructive solid geometry techniques and a summary of all solid modeling commands covered. This tutorial style companion book by Ron Cheng offers additional skills and support to his main book **MASTERING AUTOCAD RELEASE 14**. Adopters wishing to combine two or more of any Thomson Learning titles and save their students money can call our Custom Bundling Solutions Center at 800 245 6724.

*Mastering Mechanical Desktop Release 3* Ron Cheng, 2000 Cheng's **MECHANICAL DESKTOP R3 SURFACE PARAMETRIC AND ASSEMBLY MODELING** covers the four design tools of Mechanical Desktop using a step by step approach to give readers proficiency in using Mechanical Desktop R3. The author uses examples from a variety of applications which show how Mechanical Desktop is used to design actual products. Careful attention to pedagogical devices such as chapter objectives, aims and overviews at the beginning of each chapter as well as chapter summaries and exercises makes Cheng's step by step method simple to use in introductory Engineering Design courses in universities, community colleges and technical institutes. Cheng's book also complements introductory AutoCAD texts such as Cheng's *Mastering AutoCAD R14* Brooks/Cole Thomson Learning 2000 and is a comprehensive reference for people using Mechanical Desktop on a daily basis.

**Mastering AutoCAD Release 14** Ron Cheng, 1999 Cheng's newest self paced AutoCAD tutorial provides a practical step by step introduction to 3D computer aided design drawing using AutoCAD Release 14. The latest version of AUTOCAD RELEASE 14 is exclusively Windows based versus DOS. Windows and has increased 3D capability. Cheng's guide reflects these latest changes and also includes instruction on creating 3D solid objects. The book presents AutoCAD commands in the context of hands on exercises that guide first time users through entity creation, editing and manipulation, creation of engineering drawings, preparation, dimensioning and plotting of hard copy documents. This book starts from basic then gradually advances to more complicated 3D components using self paced mini projects in its illustration. A summary of all AutoCAD commands used in the exercises is found in the last chapter, making this book a useful working reference for professional engineers and designers.

**Engineering Design Graphics Journal**, 1996

*Mastering Mechanical Desktop* Ron Cheng, 1998 Cheng's compact guide to surface modeling teaches student and professional users of Autodesk Inc's MECHANICAL how to create 3D wireframe and NURBS (Non Uniform Rational B Spline)

surface models The book begins with a brief introduction to AutoSurf Release 3 and then proceeds to a hands on project in which users create 3D wireframes and proceeds to a hands on project in which users create 3D wireframes and surfaces for a video camera model A second project modeling a mobile phone introduces users to advanced surface modeling techniques The book concludes with an easy to use reference of all AutoSurf Release 3 related commands and variables used in the book This tutorial style companion book by Ron Cheng offers additional skills and support to his main book MASTERING AUTOCAD RELEASE 14 Adopters wishing to combine two or more of any Thomson Learning titles and save their students money can call our Custom Bundling Solutions Center at 800 245 6724

*The British National Bibliography* Arthur James Wells,2003 *The Cumulative Book Index* ,1998 A world list of books in the English language American Book Publishing Record ,1997-09 *Catalog* Southwestern Indian Polytechnic Institute,1991 **Mastering Mechanical Desktop** Ron Cheng,1998 This concise guide to parametric design teaches student and professional users of AutoCAD and MECHANICAL DESKTOP how to use AutoCAD Designer s parametric solid modeling features to produce dimension driven 3D solid models virtual assemblies and engineering documents The book explains how AutoCAD native solids AutoCAD Designer solids and AutoSurf NURBS surfaces can be combined converted and modified in a powerful unified and interoperative design environment Users of this book learn how to create a dimension driven parametric solid by extruding generate solid features by sweeping and revolving and create virtual assemblies of solid parts The book concludes with a step by step explanation of how native solids AutoSurf surfaces and Designer s parametric objects interoperate with one another and a summary of all Designer commands and variables used making this book a useful hands on working reference for engineering design professionals and students This tutorial style companion book by Ron Cheng offers additional skills and support to his main book MASTERING AUTOCAD RELEASE 14 Adopters wishing to combine two or more of any Thomson Learning titles and save their students money can call our Custom Bundling Solutions Center at 800 245 6724

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stimulates solutions for a safer world

## Embracing the Tune of Expression: An Psychological Symphony within **Mastering Mechanical Desktop Native Solids**

In some sort of consumed by displays and the ceaseless chatter of instant interaction, the melodic splendor and mental symphony developed by the written word usually disappear in to the backdrop, eclipsed by the persistent noise and interruptions that permeate our lives. Nevertheless, located within the pages of **Mastering Mechanical Desktop Native Solids** a charming literary treasure filled with organic feelings, lies an immersive symphony waiting to be embraced. Constructed by an outstanding composer of language, that fascinating masterpiece conducts readers on a psychological trip, skillfully unraveling the hidden songs and profound influence resonating within each cautiously crafted phrase. Within the depths of this emotional examination, we will investigate the book is central harmonies, analyze its enthralling writing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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### **Mastering Mechanical Desktop Native Solids Introduction**

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