



Inside Rhinoceros 5

By Ron K.C. Cheng

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INSIDE RHINOCEROS 5, is the ideal introduction to using the latest version of Rhino. This well-designed book bridges the gap between theoretical and software-oriented approaches to computer modeling by providing a balanced presentation of theory, concepts, and hands-on tutorials. It begins with an overview of the Rhinoceros 5 interface and progresses to explore wireframe models and the construction of curves. This book contains an in-depth examination of surface modeling, taking readers step-by-step through surfaces construction using Rhino and discusses in detail solid modeling methods, rendering, engineering drawing, and outputting to various file formats. INSIDE RHINOCEROS 5, concludes with a set of projects aimed at allowing readers to apply Rhino in real world design situations.

Features and Benefits

- Contains fundamental, easy to understand information on using the computer to model 3D objects that forms the basis for relating Rhinoceros 4 with upstream and downstream operations.
- Gives special emphasis to understanding theoretical issues on NURBS (non-uniform rational B-splines) curves and surfaces as well as practical issues on the use of Rhinoceros5 to construct and design free-form models.
- Contains a logical progression of topics that lets your students grasp the top-down critical thinking process in decomposing a holistic design into surfaces and then to defining curves, as well as the bottom-up construction process in making the curves, the surfaces, and then the model.
- Outlines modeling methods over the course of several chapters, letting your novice students advance gradually to more difficult tasks while enabling your more advanced students to go straight to more complex techniques.

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Table of Contents

Case Study 1. Bubble Car Case Study.

Case Study 2. Jewelry Design Case Studies.

1. Rhinoceros Functions, User Interface, and Basic Operating Methods.
2. Rhinoceros NURBS Surface Construction and Manipulation.
3. Mesh Object Construction and Manipulation.
4. Object Transformation.
5. Group, Block, and Work Session.
6. Drawing Output and Data Exchange.
7. Rendering.

Appendices: Digital Modeling Concepts and Construction Plane Concepts.

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Editorial Review

Review

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About the Author

Ron K.C. Cheng is head of the Engineering Design and Appreciation Unit of the Industrial Centre of The Hong Kong Polytechnic University and has over thirty years of experience in the area of teaching and practical training. He is responsible for the centre's computer aided design, automobile engineering, and integrative project training. For the past ten years Mr. Cheng has designed and initiated the integrative project training programs which are now widely implemented in the centre's undergraduate and graduate practical training programs. His area of specialization is the application of various computer aided design tools, including finite element analysis tools and product data management tools and he is now working on several integrative automotive projects building three wheel cars as well as four wheel electric cars. In addition to teaching and training, Mr. Cheng has written nineteen books, including books on AutoCAD, Mechanical Desktop, Autodesk Inventor, Pro/Desktop, Rhinoceros, and SmartSketch. He has also published a series of paper automata. Mr. Cheng has earned the following Degrees: ACP, LCP, Master of Science Degree and Master of Education Degree.

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