Learning Autodesk Alias Design 2010

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Learning Autodesk Alias Design 2010
Sham Tickoo

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DEDICATION

To teachers, who make it possible to disseminate knowledge
to enlighten the young and curious minds
of our future generations

To students, who are dedicated to learning new technologies
and making the world a better place to live in

THANKS

To the faculty and students of the MET department of
Purdue University Calumet for their cooperation

To employees of CADCIM Technologies for their valuable help

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Preface

Autodesk Alias Design 2010

Autodesk Alias Design 2010 is a powerful designing and styling software developed by Autodesk Inc., USA. This concept-based software is widely used in automotive designing and styling, 3D modeling, and rendering. The dynamic modeling capabilities of this software make it an effective tool for Industrial designers. The sketching, modeling, and concept visualization tools of Alias Design enable the designers to transform their ideas into reality with ease. The specialized design tools of Alias Design meet the design requirements of automobile, marine, aircraft, sports equipment, and toy industry.

Alias Design ensures that aesthetic and functional requirements of a design are efficiently addressed by first exploring the concept, sculpting a 3D surface model, analyzing the surface, and finally creating a good quality rendered image. One of the most intriguing and useful capabilities of Alias Design is its ability to mix 2D and 3D geometry into one image, thereby addressing every design through manufacturing process.

Learning Autodesk Alias Design 2010 textbook has been written with the intention of helping the readers effectively use Alias Design 2010. The textbook caters to the needs of both the novice and the advanced users of Alias Design. The surface modeling tutorials and exercises used in this textbook ensure that the users can relate the knowledge of this book with the actual industry designs. Written with the tutorial point-of-view and the learn-by-doing theme, the textbook is ideally suited for learning at your convenience and at your pace.

The salient features of this textbook are as follows:

- **Tutorial Approach**

  The author has adopted the tutorial point-of-view and the learn-by-doing theme throughout the textbook. This approach guides the users through the process of creating models in the tutorials.

- **Real-World Models as Projects**

  The author has used about 25 real-world surface modeling projects as tutorials in this textbook. This enables the reader to relate the models in the tutorials to the real-world. In addition, there are exercises that can be used by the readers to assess their knowledge.

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- **Tips and Notes**
  Additional information related to various topics is provided to the users in the form of tips and notes.

- **Heavily Illustrated Text**
  The text in this book is heavily illustrated with about 1400 diagrams and screen capture images.

- **Learning Objectives**
  The first page of every chapter summarizes the topics that are covered in the chapter.

- **Self-Evaluation Test, Review Questions, and Exercises**
  Each chapter ends with a Self-Evaluation test so that the users can assess their knowledge of the chapter. The answers to the Self-Evaluation test are given at the end of the chapter. Also, the Review Questions and Exercises are given at the end of each chapter and they can be used by the Instructors as test questions and assignments.

Free Companion Website

It has been our constant endeavor to provide best textbooks and services at affordable prices. In this effort, we have come out with a free companion website that will facilitate the process of teaching and learning of Autodesk Alias Design 2010. On purchasing this textbook from our website (*www.cadcim.com)*, you will get access to the companion website that has the following additional resources for the faculty and students.

- **Tech Support**
  You can get the online technical support by contacting *techsupport@cadcim.com.*

- **Instructor's Guide**
  Instructor's guide containing solutions to all review questions and exercises is provided. (For Faculty only)

- **PowerPoint Presentations**
  The contents of the book are arranged in the powerpoint slides that can be used by the faculty for their lectures. (For faculty only)

- **Part Files**
  The parts (wire files) used in illustrations and examples are available for free download. If you are a faculty member, you can download the exercise files also.

- **Chapters for Free Download**
  Two chapters available for free download covering the Surface Evaluation and the Sketching tools.

Visit the following link to access the student resources.
http://www.cadcim.com/students/students.htm

If you are a faculty member, please contact the publisher at *sales@cadcim.com* or the author at *stickoo@calumet.purdue.edu* to access the website that contains the teaching resources.

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