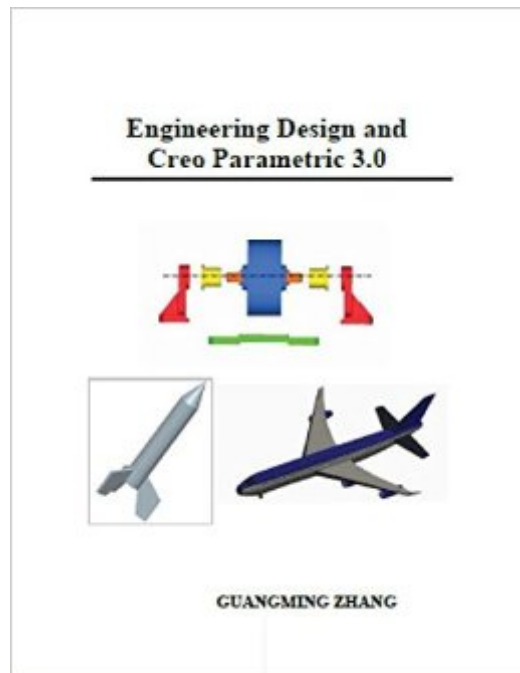


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# Engineering Design And Creo Parametric 3.0



## Synopsis

This book presents a comprehensive treatment of engineering design with focus on solutions that are based on information technology. With capabilities of computers expanding at an unthinkable pace, the importance of using advanced computer-aided design (CAD) systems in engineering design must be emphasized. Creo Parametric, a leading CAD system, is presented in this textbook to demonstrate the role of the computer software in assisting engineers in the design process with efficiency and innovation. This book is written as an introductory textbook for undergraduate students in engineering in all specialty areas (e.g., mechanical, aerospace, civil, electrical, chemical, bioengineering, industrial, materials, and fire protection engineering). This book should also be useful to those engaged in the product design. This book is organized into 10 chapters. The first three chapters provide a fundamental coverage of engineering design. They stress the need to follow national and international standards related to engineering graphics, dimensioning, and tolerances. Representative examples are provided to demonstrate industrial applications. A systematic description of the Creo Parametric design system is presented in Chapters 4-9. These chapters cover feature-based solid modeling, preparation of engineering drawings, concepts of virtual assembly, mechanism and simulation (FEA). Chapter 10 presents a design project of creating a scaled 3D Model of Boing 747. The material covered in this book is an outgrowth of several design and FEA courses taught by the author at the University of Maryland at College Park. The first edition was published at the beginning of 1998. To address the need due to the evolution of the Pro/ENGINEER design system, and now the Creo Parametric design system, several editions were also published. This new edition is prepared for users, who are using Creo Parametric 3.0, a new release to the previous Creo Parametric 2.0 design system.

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