

1. Record Nr.	UNINA9910830154303321
Autore	Dakeev Ulan
Titolo	Creo Parametric modeling with augmented reality // Ulan Dakeev
Pubbl/distr/stampa	Hoboken, New Jersey : , : John Wiley & Sons, Inc., , [2023] ©2023
ISBN	9781119894421
Descrizione fisica	1 online resource (299 pages)
Disciplina	620.0028553
Soggetti	Engineering models Three-dimensional imaging Augmented reality
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover -- Title Page -- Copyright Page -- Table of Contents -- CHAPTER 1 Introduction to Parametric Design -- 1.1 Introduction -- 1.1.1 What is Creo Parametric? -- 1.1.2 Definitions -- 1.2 Introduction to Computer-Aided Design -- 1.2.1 Design Process -- 1.2.2 Free Creo Download and Installation (Student Version) -- 1.2.3 Creo Installation -- 1.2.4 Starting Creo Parametric -- 1.2.5 Augmented Reality Companion Application and Image Targets -- CHAPTER 2 Introduction to Sketch -- 2.1 Introduction -- 2.1.1 Select Working Directory -- 2.1.2 Starting New Project -- 2.1.3 Start New Sketch -- 2.1.4 Add Constraints -- 2.1.5 Define and Modify Dimensions -- 2.1.6 Create Holes with Sketch -- 2.1.7 Fillet Command -- 2.1.8 Finish and Extrude the Sketch -- 2.1.9 Sketch Counterbore -- Chapter Problems -- CHAPTER 1 Revolve and Sweep -- 3.1 Introduction -- 3.1.1 Start New Sketch -- 3.1.2 Select Centerline -- 3.1.3 Define and Modify Dimensions -- 3.1.4 Revolve -- 3.1.5 Start New Sketch -- 3.1.6 Create the Flap Flanges -- 3.1.7 Start New Sketch -- 3.1.8 Revolve Center Hub and Handle -- 3.1.9 Central Hub Support Modeling -- 3.1.10 Sweep Support Bar -- 3.1.11 Radial Pattern Handlebar Supports -- Chapter Problems -- CHAPTER 4 3D Features/Modifiers -- 4.1 Introduction -- Chapter Problems -- CHAPTER 5 Introduction to Drawing -- 5.1 Introduction -- 5.1.1 Drawing Format/Template -- Chapter Problems

-- CHAPTER 6 Drawing Tools -- 6.1 Introduction -- 6.1.1 Planar Section -- 6.1.2 Radial Datum Axis Circle -- 6.1.3 Part Orientation -- 6.1.4 Detail View -- 6.1.5 Offset Section Drawing -- 6.1.6 Adding Text onto the Dimensional Values -- 6.1.7 Adding an Auxiliary View -- Chapter Problems -- CHAPTER 7 Assemblies -- 7.1 Introduction -- 7.1.1 Start Assembly -- 7.1.2 Start Assembly -- 7.1.3 Pattern Assembling -- Chapter Problems -- CHAPTER 8 Assembly Drawings. 8.1 Introduction to ASM Drawings -- 8.1.1 Table of Report -- 8.1.2 Create Isometric view -- Chapter Problems -- CHAPTER 9 Geometric Dimensioning and Tolerancing GD&T -- 9.1 Introduction -- 9.1.1 GD&T Symbols -- 9.1.2 Dimension Tolerance -- 9.1.3 Add Datum References -- 9.1.4 Knowledge Check Activity -- Chapter Problems -- CHAPTER 10 Finite Element Analysis (FEA) -- 10.1 Introduction -- 10.1.1 Simulation Lite Add-On Installation -- 10.1.2 Design Revision for FEA -- 10.1.3 Design Revision from FEA -- 10.1.4 Independent Challenge Activity -- Chapter Problems -- CHAPTER 11 Mechanism Assembly -- 11.1 Introduction -- 11.1.1 Mechanism Animation -- Chapter Problems -- CHAPTER 12 Sheetmetal Modeling -- 12.1 Introduction -- 12.1.1 Sheetmetal Drawing -- Chapter Problems -- Appendix 1 Augmented Reality Companion Application and Image Targets -- Index -- EULA.
