



# Mold Design Using Solidworks Manual

**Godfrey C. Onwubolu**



## **Mold Design Using Solidworks Manual:**

**The Complete Guide to Mold Making with SOLIDWORKS 2022** Paul Tran, 2021-12 The Complete Guide to Mold Making with SOLIDWORKS 2022 is a quick paced book written to provide experienced SOLIDWORKS users with in depth knowledge of the mold tools provided by SOLIDWORKS Throughout this book you will learn the procedures necessary for using these tools to create and analyze effective mold designs Utilizing step by step instructions each chapter of this book will guide you through different tasks from designing or repairing a mold to developing complex parting lines from making a core in the part mode to advancing through more complex tasks in the assembly mode Throughout this book you will be introduced to using surfacing tools to repair models and prepare them for the mold making process Towards the end of this book you will learn how to work with SOLIDWORKS Plastics and Flow Simulation to simulate the way melted plastics flow during the injection molding process You will also learn to analyze the thick thin wall regions to predict defects on plastic parts and molds Learning how to analyze plastic parts for errors and correct them early in the design stage is a valuable skill which can save a significant amount of time throughout the span of the entire design process Every project in this book is based on real world products Each of these projects have been broken down and developed into simple comprehensible steps Furthermore every mold design is explained very clearly in short chapters ranging from 15 to 25 pages Each step comes with the exact screen shot to help you understand the main concept of the design Learn the mold designs at your own pace as you progress from simple core and cavity creation to more complex mold design challenges This book will also teach you to use various surfacing tools such as Ruled Surface Planar Surface Knit Surface Filled Surface Extend Surface Trim Surface Lofted Surface

SOLIDWORKS 2022: A Tutorial Approach, 6th Edition Prof. Sham Tickoo, 2021-12-21 SOLIDWORKS 2022 A Tutorial Approach introduces readers to SOLIDWORKS 2022 software one of the world s leading parametric solid modeling packages In this book the author has adopted a tutorial based approach to explain the fundamental concepts of SOLIDWORKS This book has been written with a tutorial point of view and a learn by doing theme to help the users easily understand the concepts covered in it The book consists of 12 chapters that are structured in a pedagogical sequence that makes the book very effective in learning the features and capabilities of the software The book covers a wide range of topics such as Sketching Part Modeling Assembly Modeling and Drafting in SOLIDWORKS 2022 In addition this book covers the basics of Mold Design FEA and SOLIDWORKS Simulation Salient Features Consists of 12 chapters that are organized in a pedagogical sequence Tutorial approach to explain various concepts of SOLIDWORKS 2022 First page of every chapter summarizes the topics that are covered in it Step by step instructions that guide the users through the learning process Real world mechanical engineering designs as tutorials and projects Additional information throughout the book is in the form of notes and tips Self Evaluation Tests and Review Questions at the end of the chapters for the users to assess their knowledge Additional learning resources are at <http://allaboutcadcaml.blogspot.com> Table of Contents Chapter 1 Introduction to

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Plastics and Flow Simulation to simulate the way melted plastics flow during the injection molding process You will also learn to analyze the thick thin wall regions to predict defects on plastic parts and molds Learning how to analyze plastic parts for errors and correct them early in the design stage is a valuable skill which can save a significant amount of time throughout the span of the entire design process Every project in this book is based on real world products Each of these projects have been broken down and developed into simple comprehensible steps Furthermore every mold design is explained very clearly in short chapters ranging from 15 to 25 pages Each step comes with the exact screen shot to help you understand the main concept of the design Learn the mold designs at your own pace as you progress from simple core and cavity creation to more complex mold design challenges Who This Book Is For This book is for users already familiar with SOLIDWORKS who want to expand their knowledge of mold design To get the most out of this mold design book it is strongly recommended that you have completed all the lessons in the SOLIDWORKS Advanced Techniques book or have comparable knowledge More CAD literate individuals who want to expand their knowledge of the different features that SOLIDWORKS 2023 has to offer will also find this book to be a great resource **Mold Design Using NX 11.0: A Tutorial Approach** Prof. Sham

Tickoo,2017-12-20 Mold Design Using NX 11 0 A Tutorial Approach book is written with the intention of helping the readers effectively design molds and its parts such as gate runner and various other standard parts using Mold Wizard of NX After going through this book the users will be able to design molds easily and effectively through processes such as analysis and documentation which have been dealt in detail Also the chapters in this book are arranged in a pedagogical sequence that makes this book very effective in learning the features and capabilities of the software Keeping in mind the requirements of the users the book at first introduces basic terms and analyses and gradually progresses to cover sequential method to create mold and documentation Written with the tutorial point of view and the learn by doing a theme the book caters to the needs of both novice and advanced users and is ideally suited for learning at your convenience and pace Salient Features Consists of 10 chapters that are organized in a pedagogical sequence Cover mold design concepts using NX 11 0 Tutorial approach to explain the concepts of Mold Design using NX 11 0 Summarized content on the first page of the topics that are covered in the chapter Hundreds of illustrations for easy understanding of concepts Step by step instructions to guide the users through the learning process Additional information throughout the book in the form of notes and tips Self Evaluation Tests and Review Questions at the end of each chapter to help the users assess their knowledge Technical support by contacting techsupport cadcim com Additional learning resources at allaboutcadcam blogspot com Table of Contents Chapter 1 Introduction to Mold Design and NX Mold Wizard Chapter 2 Part Analysis Chapter 3 Creating Parting Surface Chapter 4 Creating Core and Cavity Chapter 5 Adding Mold Base and Standard Parts Chapter 6 Creating Gate Runner and Layout Chapter 7 Creating Sliders and Lifters Chapter 8 Creating Ejection and Cooling Systems Chapter 9 Creating Electrodes Chapter 10 Documentation Index

The Complete Guide to Mold Making with SOLIDWORKS 2021 Paul Tran,2020-12-16 The Complete Guide to Mold

Making with SOLIDWORKS 2021 is a quick paced book written to provide experienced SOLIDWORKS users with in depth knowledge of the mold tools provided by SOLIDWORKS Throughout this book you will learn the procedures necessary for using these tools to create and analyze effective mold designs Utilizing step by step instructions each chapter of this book will guide you through different tasks from designing or repairing a mold to developing complex parting lines from making a core in the part mode to advancing through more complex tasks in the assembly mode Throughout this book you will be introduced to using surfacing tools to repair models and prepare them for the mold making process Towards the end of this book you will learn how to work with SOLIDWORKS Plastics and Flow Simulation to simulate the way melted plastics flow during the injection molding process You will also learn to analyze the thick thin wall regions to predict defects on plastic parts and molds Learning how to analyze plastic parts for errors and correct them early in the design stage is a valuable skill which can save a significant amount of time throughout the span of the entire design process Every project in this book is based on real world products Each of these projects have been broken down and developed into simple comprehensible steps Furthermore every mold design is explained very clearly in short chapters ranging from 15 to 25 pages Each step comes with the exact screen shot to help you understand the main concept of the design Learn the mold designs at your own pace as you progress from simple core and cavity creation to more complex mold design challenges This book will also teach you to use various surfacing tools such as Ruled Surface Planar Surface Knit Surface Filled Surface Extend Surface Trim Surface Lofted Surface Who This Book Is For This book is for users already familiar with SOLIDWORKS who want to expand their knowledge of mold design To get the most out of this mold design book it is strongly recommended that you have completed all the lessons in the SOLIDWORKS Advanced Techniques book or have comparable knowledge More CAD literate individuals who want to expand their knowledge of the different features that SOLIDWORKS 2021 has to offer will also find this book to be a great resource

*The Complete Guide to Mold Making with SOLIDWORKS 2020* Paul Tran, 2019-11

The Complete Guide to Mold Making with SOLIDWORKS 2020 is a quick paced book written to provide experienced SOLIDWORKS users with in depth knowledge of the mold tools provided by SOLIDWORKS Throughout this book you will learn the procedures necessary for using these tools to create and analyze effective mold designs Utilizing step by step instructions each chapter of this book will guide you through different tasks from designing or repairing a mold to developing complex parting lines from making a core in the part mode to advancing through more complex tasks in the assembly mode Throughout this book you will be introduced to using surfacing tools to repair models and prepare them for the mold making process Towards the end of this book you will learn how to work with SOLIDWORKS Plastics and Flow Simulation to simulate the way melted plastics flow during the injection molding process You will also learn to analyze the thick thin wall regions to predict defects on plastic parts and molds Learning how to analyze plastic parts for errors and correct them early in the design stage is a valuable skill which can save a significant amount of time throughout the span of the entire design process Every project in this book is

based on real world products Each of these projects have been broken down and developed into simple comprehensible steps Furthermore every mold design is explained very clearly in short chapters ranging from 15 to 25 pages Each step comes with the exact screen shot to help you understand the main concept of the design Learn the mold designs at your own pace as you progress from simple core and cavity creation to more complex mold design challenges This book will also teach you to use various surfacing tools such as Ruled Surface Planar Surface Knit Surface Filled Surface Extend Surface Trim Surface Lofted Surface Who This Book Is For This book is for users already familiar with SOLIDWORKS who want to expand their knowledge of mold design To get the most out of this mold design book it is strongly recommended that you have completed all the lessons in the SOLIDWORKS Advanced Techniques book or have comparable knowledge More CAD literate individuals who want to expand their knowledge of the different features that SOLIDWORKS 2020 has to offer will also find this book to be a great resource

**SOLIDWORKS 2020: A Tutorial Approach, 5th Edition** Prof. Sham Tickoo, 2020-10-22 SOLIDWORKS 2020 A Tutorial Approach introduces readers to SOLIDWORKS 2020 software one of the world's leading parametric solid modeling packages In this book the author has adopted a tutorial based approach to explain the fundamental concepts of SOLIDWORKS This book has been written with the tutorial point of view and the learn by doing theme to help the users easily understand the concepts covered in it The book consists of 12 chapters that are structured in a pedagogical sequence that makes the book very effective in learning the features and capabilities of the software The book covers a wide range of topics such as Sketching Part Modeling Assembly Modeling Drafting in SOLIDWORKS 2020 In addition this book covers the basics of Mold Design FEA and SOLIDWORKS Simulation Salient Features Consists of 12 chapters that are organized in a pedagogical sequence Tutorial approach to explain various concepts of SOLIDWORKS 2020 First page of every chapter summarizes the topics that are covered in it Step by step instructions that guide the users through the learning process Real world mechanical engineering designs as tutorials and projects Additional information throughout the book in the form of notes and tips Self Evaluation Tests and Review Questions at the end of the chapters for the users to assess their knowledge Additional learning resources at <https://allaboutcadcam.blogspot.com> Table of Contents Chapter 1 Introduction to SOLIDWORKS 2020 Chapter 2 Drawing Sketches for Solid Models Chapter 3 Editing and Modifying Sketches Chapter 4 Adding Relations and Dimensions to Sketches Chapter 5 Advanced Dimensioning Techniques and Base Feature Options Chapter 6 Creating Reference Geometries Chapter 7 Advanced Modeling Tools I Chapter 8 Advanced Modeling Tools II Chapter 9 Assembly Modeling Chapter 10 Working with Drawing Views Chapter 11 Introduction to FEA and SOLIDWORKS Simulation Chapter 12 Introduction to Mold Design Student Project Index *Introduction to SolidWorks* Godfrey C. Onwubolu, 2017-03-03 This senior undergraduate level textbook is written for Advanced Manufacturing Additive Manufacturing as well as CAD CAM courses Its goal is to assist students in colleges and universities designers engineers and professionals interested in using SolidWorks as the design and 3D printing tool for emerging manufacturing technology for

practical applications This textbook will bring a new dimension to SolidWorks by introducing readers to the role of SolidWorks in the relatively new manufacturing paradigm shift known as 3D Printing which is based on Additive Manufacturing AM technology This new textbook Features modeling of complex parts and surfaces Provides a step by step tutorial type approach with pictures showing how to model using SolidWorks Offers a user Friendly approach for the design of parts assemblies and drawings motion analysis and FEA topics Includes clarification of connections between SolidWorks and 3D Printing based on Additive Manufacturing Discusses a clear presentation of Additive Manufacturing for Designers using SolidWorks CAD software Introduction to SolidWorks A Comprehensive Guide with Applications in 3D Printing is written using a hands on approach which includes a significant number of pictorial descriptions of the steps that a student should follow to model parts assemble parts and produce drawings

**Computer-aided Engineering Design With Solidworks** Godfrey C Onwubolu,2013-03-26 Computer Aided Engineering Design with SolidWorks is designed for students taking SolidWorks courses at college and university and also for engineering designers involved or interested in using SolidWorks for real life applications in manufacturing processes mechanical systems and engineering analysis The course material is divided into two parts Part I covers the principles of SolidWorks simple and advanced part modeling approaches assembly modeling drawing configurations design tables and surface modeling Part II covers the applications of SolidWorks in manufacturing processes mechanical systems and engineering analysis The manufacturing processes applications include mold design sheet metal parts design die design and weldments The mechanical systems applications include routing piping and tubing gears pulleys and chains cams and springs mechanism design and analysis threads and fasteners hinges and universal joints The sections on engineering analysis also include finite element analysis This textbook is unique because it is one of the very few to thoroughly cover the applications of SolidWorks in manufacturing processes mechanical systems and engineering analysis as presented in Part II It is written using a hands on approach in which students can follow the steps described in each chapter to model and assemble parts produce drawings and create applications on their own with little assistance from their instructors during each teaching session or in the computer laboratory There are pictorial descriptions of the steps involved in every stage of part modeling assembly modeling drawing details and applications presented in this textbook Supplementary Material s For Users 2 MB a *Engineering Design with SOLIDWORKS 2018 and Video Instruction* David Planchard,2018 Engineering Design with SOLIDWORKS 2018 and video instruction is written to assist students designers engineers and professionals The book provides a solid foundation in SOLIDWORKS by utilizing projects with step by step instructions for the beginner to intermediate SOLIDWORKS user featuring machined plastic and sheet metal components Desired outcomes and usage competencies are listed for each project The book is divided into five sections with 11 projects Project 1 Project 6 Explore the SOLIDWORKS User Interface and CommandManager Document and System properties simple and complex parts and assemblies proper design intent design tables configurations multi sheet multi view



drawings BOMs and Revision tables using basic and advanced features Additional techniques include the edit and reuse of features parts and assemblies through symmetry patterns configurations SOLIDWORKS 3D ContentCentral and the SOLIDWORKS Toolbox Project 7 Understand Top Down assembly modeling and Sheet Metal parts Develop components In Context with InPlace Mates along with the ability to import parts using the Top Down assembly method Convert a solid part into a Sheet Metal part and insert and apply various Sheet Metal features Project 8 Project 9 Recognize SOLIDWORKS Simulation and Intelligent Modeling techniques Understand a general overview of SOLIDWORKS Simulation and the type of questions that are on the SOLIDWORKS Simulation Associate Finite Element Analysis CSWSA FEA exam Apply design intent and intelligent modeling techniques in a sketch feature part plane assembly and drawing Project 10 Comprehend the differences between additive and subtractive manufacturing Understand 3D printer terminology along with a working knowledge of preparing saving and printing CAD models on a low cost printer Project 11 Review the Certified Associate Mechanical Design CSWA program Understand the curriculum and categories of the CSWA exam and the required model knowledge needed to successfully take the exam The author developed the industry scenarios by combining his own industry experience with the knowledge of engineers department managers vendors and manufacturers These professionals are directly involved with SOLIDWORKS every day Their responsibilities go far beyond the creation of just a 3D model

Exploring Autodesk Revit 2019 for Structure, 9th Edition Prof. Sham Tickoo, 2018 Exploring Autodesk Revit 2019 for Structure is a comprehensive book that has been written to cater to the needs of the students and the professionals who are involved in the AEC profession This book enables the users to harness the power of BIM with Autodesk Revit 2019 for Structure for their specific use In this book the author emphasizes on physical modeling analytical modeling rebar modeling steel element cutting tools structural steel connections and quantity scheduling Also Revit 2019 for Structure book covers the description of various stages involved in analyzing the model in Robot Structural Analysis software This book is specially meant for professionals and students in structural engineering civil engineering and allied fields in the building industry In this book along with the main text the chapters have been punctuated with tips and notes to give additional information on the concept thereby enabling you to create your own innovative project Salient Features Detailed explanation of structural tools of Autodesk Revit Real world structural projects given as tutorials Tips and Notes throughout the book 536 pages of heavily illustrated text Self Evaluation Tests Review Questions and Exercises at the end of each chapter Table of Contents Chapter 1 Introduction to Autodesk Revit 2019 for Structure Chapter 2 Getting Started with a Structural Project Chapter 3 Setting up a Structural Project Chapter 4 Structural Columns and Walls Chapter 5 Foundations Beams Floors and Open Web Joists Chapter 6 Editing Tools Chapter 7 Documenting Models and Creating Families Chapter 8 Standard Views Details and Schedules Chapter 9 3D Views Sheets Analysis Reinforcements and Massing Chapter 10 Linking Revit Model with Robot Structural Analysis Student Project Index Free Teaching and Learning Resources CAD/CIM Technologies provides the

following free teaching and learning resources with this book Technical support on contacting techsupport cadcim com Part files used in tutorials illustrations and exercises Customizable PowerPoint Presentations of every chapter Instructor Guide with solution to all review questions and exercises Additional learning resources at revitxperts blogspot in and youtube com cadcimtech For Faculty Only Creo Parametric 6.0 for Designers, 6th Edition Prof. Sham Tickoo, 2019 Creo Parametric 6 0 for Designers book is written to help the readers effectively use the modeling and assembly tools by utilizing the parametric approach of Creo Parametric 6 0 effectively This book provides detailed description of the tools that are commonly used in modeling assembly sheetmetal as well as in mold This book also covers the latest surfacing techniques like Freestyle and Style with the help of relevant examples and illustrations The Creo Parametric 6 0 for Designers book further elaborates on the procedure of generating the drawings of a model or assembly which are used for documentation of a model or assembly It also includes the concept of Geometric Dimensioning and tolerancing The examples and tutorials given in this book relate to actual mechanical industry designs Salient Features Comprehensive coverage of Creo Parametric 6 0 concepts and techniques Tutorial approach to explain the concepts of Creo Parametric 6 0 Detailed explanation of all commands and tools Summarized content on the first page of the topics that are covered in the chapter Hundreds of illustrations for easy understanding of concepts Step by step instructions notes and tips hundreds of illustrations for easy understanding of concepts Real world mechanical engineering designs as tutorials and exercises Additional information throughout the book in the form of notes and tips Self Evaluation Tests and Review Questions at the end of the chapters to help the users assess their knowledge Additional learning resources at allaboutcadcam blogspot com Table of Contents Chapter 1 Introduction to Creo Parametric 6 0 Chapter 2 Creating Sketches in the Sketch Mode I Chapter 3 Creating Sketches in the Sketch Mode II Chapter 4 Creating Base Features Chapter 5 Datums Chapter 6 Options Aiding Construction of Parts I Chapter 7 Options Aiding Construction of Parts II Chapter 8 Options Aiding Construction of Parts III Chapter 9 Advanced Modeling Tools Chapter 10 Assembly Modeling Chapter 11 Generating Editing and Modifying the Drawing Views Chapter 12 Dimensioning the Drawing Views Chapter 13 Other Drawing Options Chapter 14 Working with Sheetmetal Components Chapter 15 Surface Modeling Chapter 16 Introduction to Mold Design Chapter 17 Concepts of Geometric Dimensioning and Tolerancing Index

*Engineering Design with SolidWorks 2013 and Video Instruction* David C. Planchard, Marie P. Planchard, 2013

Engineering Design with SolidWorks 2013 and Video Instruction is written to assist students designers engineers and professionals The book provides a solid foundation in SolidWorks by utilizing projects with step by step instructions for the beginner to intermediate SolidWorks user Explore the user interface CommandManager menus toolbars and modeling techniques to create parts assemblies and drawings in an engineering environment Follow the step by step instructions and develop multiple parts and assemblies that combine machined plastic and sheet metal components Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through

symmetry patterns copied components design tables Bills of Materials Custom Properties and Configurations Address various SolidWorks analysis tools SimulationXpress Sustainability SustainabilityXpress and DFMXpress and Intelligent Modeling techniques Learn by doing not just by reading Desired outcomes and usage competencies are listed for each project Know your objective up front Follow the steps in Project 1 8 to achieve the design goals Work between multiple documents features commands and custom properties that represent how engineers and designers utilize SolidWorks in industry Review individual features commands and tools with the enclosed Video Instruction DVD The projects contain exercises The exercises analyze and examine usage competencies Collaborate with leading industry suppliers such as SMC Corporation of America Boston Gear and 80 20 Inc Collaborative information translates into numerous formats such as paper drawings electronic files rendered images and animations On line intelligent catalogs guide designers to the product that meets both their geometric requirements and performance functionality The authors developed the industry scenarios by combining their own industry experience with the knowledge of engineers department managers vendors and manufacturers These professionals are directly involved with SolidWorks every day Their responsibilities go far beyond the creation of just a 3D model The book is design to compliment the SolidWorks Tutorials contained in SolidWorks 2013 There are over 2 5 hours of video instructions on the enclosed DVD     SolidWorks 2010 Bible Matt Lombard,2010-03-05 The only guide you need to learn the leading 3D solid modeler program SolidWorks This in depth guide goes into extensive detail not just on how the software works but in many cases why it works the way it does SolidWorks is a powerful 3D solid modeling system that is popular with CAD users everywhere but to become really proficient at the more involved functionality in SolidWorks one really needs specialized training or a comprehensive book like the SolidWorks Bible Thoroughly covers SolidWork features using real world examples Author Matt Lombard is well known and well respected in the SolidWorks community and host a popular SolidWorks blog called deizgnstuff Get the guidance you need to efficiently learn and master SolidWorks Note CD ROM DVD and other supplementary materials are not included as part of eBook file     Engineering Design with SolidWorks 2014 and Video Instruction David Planchard,2014 Engineering Design with SolidWorks 2014 and video instruction is written to assist students designers engineers and professionals The book provides a solid foundation in SolidWorks by utilizing projects with step by step instructions for the beginner to intermediate SolidWorks user Explore the user interface CommandManager menus toolbars and modeling techniques to create parts assemblies and drawings in an engineering environment Follow the step by step instructions and develop multiple parts and assemblies that combine machined plastic and sheet metal components Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components design tables Bills of Materials Custom Properties and Configurations Address various SolidWorks analysis tools SimulationXpress Sustainability SustainabilityXpress and DFMXpress and Intelligent Modeling techniques Learn by doing not just by reading Desired

outcomes and usage competencies are listed for each project. Know your objective up front. Follow the steps in Project 1-8 to achieve the design goals. Work between multiple documents features commands and custom properties that represent how engineers and designers utilize SolidWorks in industry. Review individual features commands and tools with the Video Instruction. The projects contain exercises. The exercises analyze and examine usage competencies. Collaborate with leading industry suppliers such as SMC Corporation of America, Boston Gear, and 80/20 Inc. Collaborative information translates into numerous formats such as paper drawings, electronic files, rendered images, and animations. On-line intelligent catalogs guide designers to the product that meets both their geometric requirements and performance functionality. The author developed the industry scenarios by combining his own industry experience with the knowledge of engineers, department managers, vendors, and manufacturers. These professionals are directly involved with SolidWorks every day. Their responsibilities go far beyond the creation of just a 3D model. The book is designed to compliment the SolidWorks Tutorials contained in SolidWorks 2014.

**SolidWorks 2010** Alex Ruiz, 2010-04-30. The only continuous step by step tutorial for SolidWorks. SolidWorks is a 3D CAD manufacturing software package that has been used to design everything from aerospace robotics to bicycles. This book teaches beginners to use SolidWorks through a step by step tutorial letting you build document and present a project while you learn. Tools and functionality are explained in the context of professional real world tasks and workflows. You will learn the essential functions and gain the skills to use the software at once. SolidWorks is a popular design software for manufacturing and this book introduces it in the context of actually creating an object. Begins with an overview of SolidWorks conventions and the interface. Explains how to create models and drawings, create a revolved part and subassembly, and model parts within a subassembly. Explores modification capabilities and drawing and Bill of Materials templates. Moves on to top level assembly models and drawings. Toolbox components and the Design Library, mates, export and printing capabilities, and creating renderings. Includes a glossary, a foreword from the SolidWorks product manager, and downloadable tutorial files. SolidWorks 2010: No Experience Required quickly turns beginners into confident users of SolidWorks.

**Intelligent Optimization of Mold Design and Process Parameters in Injection Molding** Mehdi Moayyedean, 2018-11-02. This book describes an effective framework for setting the right process parameters and new mold design to reduce the current plastic defects in injection molding. It presents a new approach for the optimization of injection molding process via i) a new mold runner design which leads to 20 percent reduction in scrap rate, 2-5 percent reduction in manufacturing time, and easier ejection of injected part; ii) a new mold gate design which leads to less plastic defects; and iii) the introduction of a number of promising alternatives with high moldability indices. Besides presenting important developments of relevance to academic research, the book also includes useful information for people working in the injection molding industry, especially in the green manufacturing field.

AutoCAD Plant 3D 2021 for Designers, 6th Edition Prof. Sham Tickoo, 2020-10-18. AutoCAD Plant 3D 2021 for Designers book introduces the readers to AutoCAD Plant 3D 2021, one of the world's leading application

designed specifically to create and modify PIDs and plant 3D models. In this book, the author emphasizes on the features of AutoCAD Plant 3D 2021 that allow the user to design piping instrumentation diagrams and 3D piping models. Also, the chapters are structured in a pedagogical sequence that makes this book very effective in learning the features and capabilities of AutoCAD Plant 3D 2021. Special emphasis has been laid in this book on tutorials and exercises which relate to the real world projects help you understand the usage and abilities of the tools available in AutoCAD Plant 3D 2021. You will learn how to setup a project, create and edit PIDs, design a 3D Plant model, generate isometric orthographic drawings as well as how to publish and print drawings. Salient Features: Consists of 10 chapters that are organized in a pedagogical sequence. Comprehensive coverage of AutoCAD Plant 3D 2021 concepts and techniques. Tutorial approach for better learning. Detailed explanation of all commands and tools. Summarized content on the first page of every chapter. Hundreds of illustrations for easy understanding of concepts. Step by step instructions to guide the users through the learning process. Real world mechanical engineering designs as tutorials. Additional information in the form of notes and tips. Self Evaluation Tests and Review Questions at the end of each chapter to help the users assess their knowledge. Table of Contents: Chapter 1 Introduction to AutoCAD Plant 3D. Chapter 2 Creating Project and PIDs. Chapter 3 Creating Structures. Chapter 4 Creating Equipment. Chapter 5 Editing Specifications and Catalogs. Chapter 6 Routing Pipes. Chapter 7 Adding Valves, Fittings and Pipe Supports. Chapter 8 Creating Isometric Drawings. Chapter 9 Creating Orthographic Drawings. Chapter 10 Managing Data and Creating Reports. Project: Thermal Power Plant. For free download: Index.

*Customizing AutoCAD 2020, 13th Edition* Prof. Sham Tickoo, 2019. Customizing AutoCAD 2020 is a comprehensive book that provides detailed descriptions of the techniques used for customizing the AutoCAD software. This book covers all levels of customization techniques starting from the basic techniques used for creating template drawings to advanced techniques used for modifying the AutoCAD environment. Every chapter of this book has several examples that illustrate some possible applications of the customizing techniques explained in the chapter. The exercises at the end of the chapter will help the users assess their knowledge of the techniques learned in the chapter. Live projects and examples will further help the readers understand the concept clearly and master the customizing techniques of AutoCAD 2020. Salient Features: A comprehensive book that consists of 16 chapters covering all major customizing techniques of AutoCAD. Detailed explanation of Scripting, AutoLISP, Visual LISP etc. to help user customize AutoCAD efficiently. Additional information is provided in the form of tips, notes. The first page of every chapter summarizes the topics covered in that chapter. Each customizing technique is thoroughly explained and is supported with examples and illustrations. Self Evaluation Test, Review Questions and exercises are provided at the end of each chapter to help the reader assess their knowledge of the tools, techniques learned in the chapter. Table of Contents: Chapter 1 Template Drawings. Chapter 2 Script Files and Slide Shows. Chapter 3 Creating Linetypes and Hatch Patterns. Chapter 4 Customizing the ACAD PGP File. Chapter 5 Customizing Menus and Toolbars. Chapter 6 Customizing Ribbon Workspaces and Palettes. Chapter 7

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