

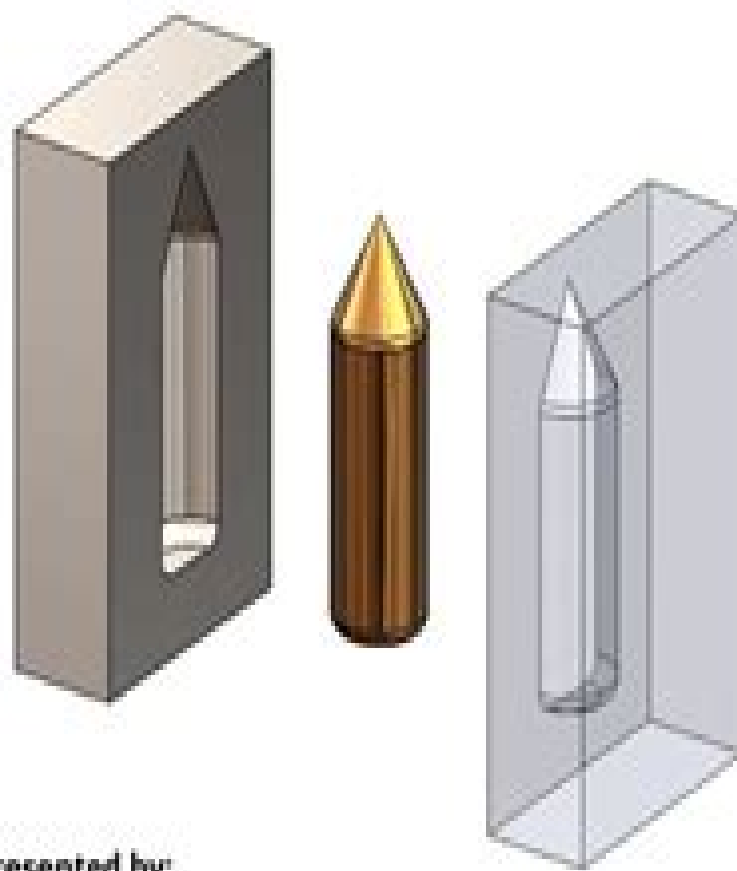


Basic Mold Design Solidworks

Create Mold in Assembly

Practice Exercise 37

3D SOLIDWORKS



Presented by:
Engr. Ibrahim Omer

Solidworks Mold Design Guide

Paul Tran



Solidworks Mold Design Guide:

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

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 2024 Paul Tran, Provides existing users with in depth knowledge of SOLIDWORKS mold making tools Teaches you to analyze plastic parts using SOLIDWORKS Plastics Wizard and Flow Simulation Introduces you to using surfacing tools to repair models for mold making Uses step by step instructions and projects based on real world products The Complete Guide to Mold Making with SOLIDWORKS 2024 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

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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 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

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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 **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 academic research the book also includes useful information for people working in the injection molding industry especially in the green manufacturing field

Package Structure and Mechanism Design Using SolidWorks 2012 Changfeng Ge,2012-08-20 The intention of this book is to provide you with a guide for designing package structure and packaging mechanism with SolidWorks 2012 The intended audience is the student engineer and persons involved in designing packaging structure product design and mechanical design The design examples in the chapters are simplified versions of real world designs The chapter sequences are arranged from basic skills to more advanced skills It is assumed that the reader has some familiarity with SolidWorks Topics Covered Sketching and solid modeling The Helix tool and Reference Plane Trim and mirror entities Assembling many part drawings into a more complicated assemble drawing 3 point Arcs and copying sketches from one plane to another plane Sheet metal functions and die cut drawing Cavity and split approaches for designing a mold Calculating fill volumes and using PhotoView 360 Creating a bill of materials for assembly instructions and documentation Sketching complicated components Creating 2D detail drawings from part drawings Advanced mate subassembly adding screws and nuts based on the Design Library Creating the exploded views *Package Structure and Mechanism Design with SolidWorks 2011* Changfeng Ge,2011 The intention of this book is to provide a step by step guide for designing package structure and packaging mechanism with SolidWorks 2011 The intended audience is the student engineer and persons involved in designing packaging structure product design and mechanical design The design examples in the chapters are simplified versions of real world designs The chapter sequences are arranged from basic skills to more advanced skills 505

Practical Guide to Digital Manufacturing Zhuming Bi,2021-05-24 This book covers the subject of digital manufacturing It provides a practical guide for readers on using computer aided design CAD computer aided engineering CAE and computer aided manufacturing CAM and other computer assistive tools for the design of products machines processes and system integrations through the case studies of engineering projects The book introduces a thorough theoretical foundation and discussion of the historical development and enabling technologies of digital manufacturing It also covers a broad range of computer aided tools for a variety of applications including geometric modelling assembly modelling

motion simulation finite element analysis manufacturing process simulation machining programming product data management and product lifecycle management Practical Guide to Digital Manufacturing uses many real world case studies to illustrate the discussed applications making it easily readable for undergraduate and graduate students as well as engineers with the needs of computer aided design and manufacturing knowledge and skills *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 **Introduction to Static Analysis Using SolidWorks Simulation** Radostina V. Petrova, 2014-09-09 Uses Finite Element Analysis FEA as Implemented in SolidWorks Simulation Outlining a path that readers can follow to ensure a static analysis that is both accurate and sound *Introduction to Static Analysis using SolidWorks Simulation* effectively applies one of the most widely used software packages for engineering design to the concepts of static **Package Structure & Mechanism Design With Solidworks 2010** Changfeng Ge, 2010 The intention of this book is to provide a step by step guide for designing package structure and packaging mechanism with SolidWorks 2010 The intended audience is the student engineer and persons involved in designing packaging structure product design and mechanical design The design examples in the chapters are simplified versions of real world designs The chapter sequences are arranged from basic skills to more advanced skills *Commands Guide Tutorial for Solidworks 2010* David C. Planchard, Marie P. Planchard, 2010 The Commands Guide Tutorial for SolidWorks 2010 is a comprehensive reference book written to assist beginner to intermediate users of SolidWorks SolidWorks is an immense software package and no one book can cover all topics for all users The book provides a centralized reference location to address many of the System and Document properties FeatureManagers PropertyManagers ConfigurationManagers and RenderManagers along with 2D and 3D Sketch tools Sketch entities 3D Feature tools Motion Study SustainabilityXpress DFMXpress SimulationXpress Sheet Metal PhotoView 360 and more Chapter 1 provides a basic

overview of the concepts and terminology used throughout this book using SolidWorks 2010 software If you are completely new to SolidWorks you should read Chapter 1 in detail and complete Lesson 1 Lesson 2 and Lesson 3 in the SolidWorks Tutorials If you are familiar with an earlier release of SolidWorks you still might want to skim Chapter 1 to become acquainted with some of the commands menus and features that you have not used or you can simply jump to any section in any chapter Each chapter 17 total provides detailed PropertyManager information on key topics with individual stand alone short tutorials to reinforce and demonstrate the functionality and ease of the SolidWorks tool or feature All models for the 230 plus tutorials are located on the enclosed CD with their solution initial and final Learn by doing not just by reading 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 configurations and more The book is designed to compliment the Online Tutorials and Online Help contained in SolidWorks 2010 The goal is to illustrate how multiple design situations and systematic steps combine to produce successful designs The authors developed the tutorials by combining their own industry experience with the knowledge of engineers department managers vendors and manufacturers These professionals are directly involved with SolidWorks everyday Their responsibilities go far beyond the creation of just a 3D model

Mold Design Solidworks Ada Slanker,2021-03-25 Mold design is a decisive factor for the molding success such as dimensioning and location of the sprue gates dimensioning of shear edges flow aids cooling and ejector techniques etc This book may give you Mould Design Basics How To Make A Mold Design Mould Design Standards Which Software Is For Mould Design Mold Design Solidworks How Do You Design For Injection Molding

Advanced SOLIDWORKS 2024 for Designers, 22nd Edition Prof. Sham Tickoo,2025-02-27 The Advanced SOLIDWORKS 2024 for Designers book has been written to help the users who are interested in learning 3D designs This book explains in detail the procedure of creating complex surface and sheet metal designs saving sketches as blocks creating mechanisms using blocks working with equations configurations and library features Apart from these topics the book also describes motion study and mold design concepts Additionally some real world projects are included in the book that will help readers to related the concepts learned through the book with the industry designs Also a number of real world mechanical engineering industry examples tutorials and exercises have been used for the users to understand the software easily and effectively Special emphasis has been laid on the introduction of concepts which have been explained using text along with graphical examples The examples and tutorials used in this book ensure that the users can relate the information provided in this book with the practical industry designs Salient Features Consists of 9 chapters that are organized in a pedagogical sequence Tutorial Approach Step by step learn by doing methodology to guide users through model creation Real World Projects Tutorials and exercises are based on practical mechanical engineering designs to bridge learning with industry applications Tips and Notes Additional insights are provided throughout the book for enhanced understanding Heavily Illustrated Content Extensive use of diagrams and screen

captures for clear visualization of concepts Learning Objectives A summary of key topics is provided at the beginning of each chapter Assessment Tools Self Evaluation Tests Review Questions and Exercises at the end of each chapter to reinforce learning and test knowledge Table of Contents Chapter 1 Surface Modeling Chapter 2 Working with Blocks Chapter 3 Sheet Metal Design Chapter 4 Equations Configurations and Library Features Chapter 5 Motion Study Chapter 6 Introduction to Mold Design Chapter 7 Working with SOLIDWORKS Simulation Chapter 8 Working with Weldments Chapter 9 Projects Index

SOLIDWORKS 2018 for Designers, 16th Edition Prof. Sham Tickoo, 2018 SOLIDWORKS 2018 for Designers book is written to help the readers effectively use the modeling and assembly tools by utilizing the parametric and feature based approach of SOLIDWORKS 2018 This book provides detailed description of the tools that are commonly used in modeling assembly and sheet metal as well as in surfacing The SOLIDWORKS 2018 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 Special emphasis has been laid on the introduction of concepts which have been explained using text along with graphical examples The examples and tutorials used in this book ensure that the users can relate the information provided in this book with the practical industry designs Salient Features Consists of 21 chapters that are organized in a pedagogical sequence The author has followed the tutorial approach to explain the concepts of SOLIDWORKS 2018 Detailed explanation of SOLIDWORKS 2018 tools The first page of every chapter summarizes the topics that are covered in it Consists of hundreds of illustrations and a comprehensive coverage of SOLIDWORKS 2018 concepts and techniques Step by step instructions that guide the users through the learning process Several 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 each chapter for the users to assess their knowledge Technical support by contacting techsupport cadcim com Additional learning resources at allaboutcadcam blogspot com Table of Contents Chapter 1 Introduction to SOLIDWORKS 2018 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 Editing Features Chapter 10 Advanced Modeling Tools III Chapter 11 Advanced Modeling Tools IV Chapter 12 Assembly Modeling I Chapter 13 Assembly Modeling II Chapter 14 Working with Drawing Views I Chapter 15 Working with Drawing Views II Chapter 16 Surface Modeling Chapter 17 Working with Blocks Chapter 18 Sheet Metal Design Chapter 19 Equations Configurations and Library Features For free download Chapter 20 Motion Study For free download Chapter 21 Introduction to Mold Design For free download Student Projects Index [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 design to compliment the SolidWorks Tutorials contained in SolidWorks 2014

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 Computer-Aided Injection Mold Design and Manufacture J.Y.H. Fuh,M. W. Fu,A.Y.C. Nee,2004-08-02 Examining processes that affect more than 70 percent of consumer products ranging from computers to medical devices and automobiles this reference presents the latest research in automated plastic injection and die casting mold design and manufacture It analyzes many industrial examples and methodologies while focusing on the algorithms implementation procedures and system architectures that will lead to a fully automated or semi automated computer aided injection mold design system CADIMDS This invaluable guide in this challenging area of precision engineering summarizes key findings and innovations from the authors many years of research on intelligent mold design technologies

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Table of Contents Solidworks Mold Design Guide

1. Understanding the eBook Solidworks Mold Design Guide
 - The Rise of Digital Reading Solidworks Mold Design Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Solidworks Mold Design Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Solidworks Mold Design Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solidworks Mold Design Guide
 - Personalized Recommendations
 - Solidworks Mold Design Guide User Reviews and Ratings
 - Solidworks Mold Design Guide and Bestseller Lists
5. Accessing Solidworks Mold Design Guide Free and Paid eBooks
 - Solidworks Mold Design Guide Public Domain eBooks
 - Solidworks Mold Design Guide eBook Subscription Services
 - Solidworks Mold Design Guide Budget-Friendly Options
6. Navigating Solidworks Mold Design Guide eBook Formats

- ePub, PDF, MOBI, and More
- Solidworks Mold Design Guide Compatibility with Devices
- Solidworks Mold Design Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solidworks Mold Design Guide
 - Highlighting and Note-Taking Solidworks Mold Design Guide
 - Interactive Elements Solidworks Mold Design Guide
- 8. Staying Engaged with Solidworks Mold Design Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solidworks Mold Design Guide
- 9. Balancing eBooks and Physical Books Solidworks Mold Design Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solidworks Mold Design Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Solidworks Mold Design Guide
 - Setting Reading Goals Solidworks Mold Design Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Solidworks Mold Design Guide
 - Fact-Checking eBook Content of Solidworks Mold Design Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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