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different load conditions and performing analyses the book covers almost all the information required by a learner to master basics of etabs some of the salient features of this book are in depth explanation of concepts every new topic of this book starts with the explanation of the basic concepts in this way the user becomes capable of relating the things with real world topics covered every chapter starts with a list of topics being covered in that chapter in this way the user can easily find the topic of his her interest easily instruction through illustration the instructions to perform any action are provided by maximum number of illustrations so that the user can perform the actions discussed in the book easily and effectively there are about 600 illustrations that make the learning process effective tutorial point of view the book explains the concepts through the tutorial to make the understanding of users firm and long lasting each chapter of the book has tutorials that are real world projects project projects and exercises are provided to students for practicing for faculty if you are a faculty member then you can ask for video tutorials on any of the topic exercise tutorial or concept as faculty you can register on our website to get electronic desk copies of our latest books faculty resources are available in the faculty member page of our website cadcamcaeworks com once you login note that faculty registration approval is manual and it may take two days for approval before you can access the faculty website

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Advances in Structural Integrity and Failure 2024-02-21 the purpose of this book is to expand the knowledge and skills of civil and structural engineers and researchers and help them better understand design and analyze civil engineering applications this book examines advancements in structural integrity and failure and underground construction it offers profound insights into the mechanisms that can lead to the integrity or failure of structures and result in safe underground construction it provides details on the fundamental principles theories behavior and performance of different structural elements and underground construction the book delves into the mechanics design and construction of reinforced concrete structures it explores the design principles applied to reinforced concrete structures and considers critical structural elements like beams slabs columns and foundations it also demonstrates various advances in reinforced concrete technology including high performance concrete fiber reinforced concrete self compacting concrete and the use of nanomaterials it describes methods for the analysis and evaluation of reinforced concrete structures non destructive testing methods structural health monitoring finite element analysis and causes of failure in addition the book proposes a design model for determining the flexural bearing capacity of reinforced concrete beams having reinforcement steel with reduced modulus of elasticity moreover the book investigates the effects of loading rates on the mechanical properties of structural steel it also evaluates the formation of welding defects in the process of connecting steel structures which is inevitable from the aspect of failure mechanics in addition it utilizes an equivalent shell wire model to propose a simple accurate technique for nonlinear assessment of reinforced concrete shear walls with less computational cost the book introduces tunnel design theory and method support structure systems construction technology and equipment under complex geological conditions furthermore it highlights procedures to design efficient dewatering systems considering the working conditions stability and impacts generated in the vicinity of construction and to examine the state of retaining walls by using hydrogeological tools finally it outlines the online monitoring and intelligent diagnosis mechanism of key equipment in the subway ventilation system

ETABS 2016 Black Book 2018-02-27 the etabs 2016 black book is written to help beginners learn the basics of etabs structure modeling and analysis this book explains the designing

of structure assigning various properties to structure applying different load conditions and performing analyses this book also covers the basics of detailing in etabs

Computer Aided Seismic and Fire Retrofitting Analysis of Existing High Rise Reinforced Concrete Buildings 2015-08-13 this book details the analysis and design of high rise buildings for gravity and seismic analysis it provides the knowledge structural engineers need to retrofit existing structures in order to meet safety requirements and better prevent potential damage from such disasters as earthquakes and fires coverage includes actual case studies of existing buildings reviews of current knowledge for damages and their mitigation protective design technologies and analytical and computational techniques this monograph also provides an experimental investigation on the properties of fiber reinforced concrete that consists of natural fibres like coconut coir and also steel fibres that are used for comparison in both normal strength concrete nsc and high strength concrete hsc in addition the authors examine the use of various repair techniques for damaged high rise buildings the book will help upcoming structural design engineers learn the computer aided analysis and design of real existing high rise buildings by using aci code for application of the gravity loads ubc 97 for seismic analysis and retrofitting analysis by computer models it will be of immense use to the student community academicians consultants and practicing professional engineers and scientists involved in the planning design execution inspection and supervision for the proper retrofitting of buildings

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SOLIDWORKS 2018: A Tutorial Approach, 4th Edition 2018 solidworks 2018 a tutorial approach introduces readers to solidworks 2018 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 2018 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 2018 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 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 the chapters 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 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

Customizing AutoCAD 2020, 13th Edition 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 shapes and text fonts chapter 8 working with autolisp chapter 9 working with visual lisp chapter 10 visual lisp editing the drawing database chapter 11 creating programmable dialog boxes using the dialog control language chapter 12 using vba in autocad chapter 13 geometry calculator chapter 14 image tile menus chapter 15 button menus chapter 16 tablet menus index

AutoCAD LT 2020 for Designers, 13th Edition 2018 the autocad lt 2020 for designers 13th edition book explains commands tools and their applications to solve drafting and design problems in this book every autocad lt command is thoroughly explained with the help of examples and illustrations this makes it easy for the users to understand the functions of the tools and their applications in the drawing after reading this autocad lt book the user will be able to use autocad lt commands to make a drawing dimension a drawing apply constraints to sketches insert symbols as well as create text blocks and dynamic blocks this autocad lt book also covers basic drafting and design concepts such as dimensioning principles and assembly drawings that equip the users with the essential drafting skills to solve the drawing problems in autocad lt while reading this book you will learn about blocks palette save to mobile and shared views that will enhance the usability of the software salient features comprehensive book with chapters organized in a pedagogical sequence 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 to guide the users through the learning process more than 30 real world mechanical engineering designs as examples 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 table of contents chapter 1 introduction to autocad lt chapter 2 getting started with autocad lt chapter 3 getting started with advanced sketching chapter 4 working with drawing aids chapter 5 editing sketched objects i chapter 6 editing sketched objects ii chapter 7 creating texts and tables chapter 8 basic dimensioning geometric dimensioning and tolerancing chapter 9 editing dimensions chapter 10 dimension styles multileader styles and system variables chapter 11 hatching drawings chapter 12 model space viewports paper space viewports and layouts chapter 13 plotting drawings chapter 14 template drawings chapter 15 working with blocks chapter 16 defining block attributes chapter 17 understanding external references chapter 18 working with advanced drawing options chapter 19 grouping and advanced editing of sketched objects chapter 20 working with data exchange object linking and embedding chapter 21 conventional dimensioning and projection theory using autocad lt chapter 22 concepts of geometric dimensioning and tolerancing chapter 23 isometric drawings index for free download

SOLIDWORKS 2018 for Designers, 16th Edition 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

Exploring Autodesk Revit 2019 for Architecture, 15th Edition 1985 exploring autodesk revit 2019 for architecture 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 revit 2019 book is a gateway to power skill and competence in the field of architecture and interior presentations drawings and documentations in this book the author has emphasized on the concept of designing creating families quantity surveying and material takeoff rendering orthographic and perspective views of building usage of other advanced tools in this book the chapters have been punctuated with tips and notes that provide additional information on the concept the highlight of revit 2019 book is that each concept introduced in it is explained with the help of suitable examples for better understanding the simple and lucid language used in revit 2019 book makes it a ready reference for both beginners and intermediate users salient features comprehensive book consisting of 886 800 86 pages of heavily illustrated text detailed explanation of the commands and tools of autodesk revit used for architecture real world architectural and interior designing projects as tutorials tips and notes throughout the textbook for providing additional information self evaluation tests review questions and exercises at the end of the chapters student project for practice table of contents chapter 1 introduction to autodesk revit 2019 for architecture chapter 2 starting an architectural project chapter 3 creating walls chapter 4 using basic building components i chapter 5 using the editing tools chapter 6 working with datum and creating standard views chapter 7 using basic building components ii chapter 8 using basic building components iii chapter 9 adding site features chapter 10 using massing tools chapter 11 adding annotations and dimensions chapter 12 creating project details and schedules chapter 13 creating and plotting drawing sheets chapter 14 creating 3d views chapter 15 rendering views and creating walkthroughs chapter 16 using advanced features for free download student project index

AutoCAD 2020: A Problem-Solving Approach, Basic and Intermediate, 26th Edition 2018-08-27 autocad 2020 a problem solving approach basic and intermediate 26th edition book contains a detailed explanation of all major concepts tools and commands of autocad 2020 software and their applications to solve drafting and design problems in this book special emphasis has been laid on industrial applications and usage of autocad tools so that it serves beginners as well as professionals to understand the functions these tools and their applications in the drawing after reading this book the user will be able to use autocad commands to make a drawing dimension a drawing apply constraints to sketches insert symbols as well as create text blocks and dynamic blocks this book also covers basic drafting and design concepts such as dimensioning principles and assembly drawings that equip the users with the essential drafting skills to solve the drawing problems in autocad while reading this book you will discover some new tools introduced in autocad 2020 such as dwg compare save to mobile and shared views that will enhance the usability of the software salient features comprehensive book that covers all major concepts and tools of autocad used in industry detailed explanation of all commands and tools emphasison illustrations and practical exercises for easy understanding of concepts more than 30 real world mechanical engineering designs as examples additional information throughout the book in the form of notes and tips table of contents chapter 1 introduction to autocad chapter 2 getting started with autocad chapter 3 getting started with advanced sketching chapter 4 working with drawing aids chapter 5 editing sketched objects i chapter 6 editing sketched objects ii chapter 7 creating texts and tables chapter 8 basic dimensioning geometric dimensioning and tolerancing chapter 9 editing dimensions chapter 10 dimension styles multileader styles and system variables chapter 11 adding constraints to sketches chapter 12 hatching drawings chapter 13 model space viewports paper space viewports and layouts chapter 14 plotting drawings chapter 15 template drawings chapter 16 working with blocks chapter 17 defining block attributes chapter 18 understanding external references chapter 20 grouping and advanced editing of sketched objects chapter 21 working with data exchange object linking and embedding chapter 22 conventional dimensioning and projection theory using autocad chapter 23 concepts of geometric dimensioning and tolerancing chapter 24 isometric drawings index for free download from cadcim com

Creo Parametric 5.0 for Designers, 5th Edition 2013 creo parametric 5 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 5 0 effectively this book provides a detailed description of the tools that are commonly used in modeling assembly sheetmetal as well as in mold design this book also covers the latest surfacing techniques like freestyle and style with the help of relevant examples and illustrations the creo parametric 5 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 also it includes the concepts of geometric dimensioning and tolerancing the examples and tutorials used in this book ensure that the users can relate the knowledge gained through this book with the actual mechanical industry designs every chapter begins with a tool section that provides a brief information of the creo parametric tools this approach allows the user to use this book initially as a learning tool and then as a reference material salient features consists of 17 chapters that are organized in a pedagogical sequence comprehensive coverage of creo parametric 5 0 concepts and techniques tutorial approach to explain the concepts of creo parametric 5 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 to guide the users through the learning process more than 40 real world mechanical engineering designs as tutorials 40 as exercises and projects with step by step explanation 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 5 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 for free download chapter 16 introduction to mold design for free download chapter 17 concepts of geometric dimensioning and tolerancing for free download index

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Annual Air Traffic Control Association Fall Conference Proceedings 2021-02-05 this book introduces the readers to solidworks 2018 the world s leading parametric solid modeling package in this book the author has adopted a project based approach to explain the fundamental concepts of solidworks this unique approach has been used to explain the creation of parts assemblies and drawings of a real world model the book will provide the users a sound and practical knowledge of the software while creating a motor cycle as the real world model this knowledge will guide the users to create their own projects in an easy and effective manner keeping in view the requirement of the users a single project has been divided into many chapters to make the users understand the concepts in a better way the creation of each part assembly and drawing has been explained using small steps which make the learning process quite simple and effective additionally the tools introduced for the first time have been dealt with in detail so that you can gain expertise and proficiency in solidworks after reading the book the user will be able to create parts assemblies drawing views with bill of materials and also learn the techniques that are essential for designing multiple models of similar geometry with ease salient features project based book consisting of 12 chapters that are organized in a pedagogical sequence explanation of 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 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 the chapters for the users to assess their knowledge additional learning resources at allaboutcadcam blogspot com table of contents chapter 1 introduction to solidworks 2018 chapter 2 creating axle and disc plate chapter 3 creating rim and tire chapter 4 creating caliper piston pad and body chapter 5 creating fork tube cap holder and bodies chapter 6 creating handlebar and handle holders chapter 7 creating muffler and swing arm chapter 8 creating shock absorber and engine parts chapter 9 creating mudguards fuel tank headlight mask and seat cover chapter 10 weldment structural frames chapter 11 creating motor cycle assembly chapter 12 generating drawing views index free teaching and learning resources cadcim

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Autodesk Inventor Professional 2019 for Designers, 19th Edition 1992 exploring autocad map 3d 2018 book introduces the users to autocad map 3d 2018 software this book is a gateway to power skill and competence in the field of gis and spatial analysis this book is specially meant for professionals and students of gis urban planning civil engineering cartography and cad professionals who are associated with planning designing and data management special emphasis has been laid to explain new concepts procedures and methods in gis by using sufficient text and graphical examples the accompanying tutorials and exercises which relate to the real world projects help you understand the usage and abilities of the tools available in autocad map 3d the author has emphasized on the tools options functions and interoperability of autocad map 3d that allow the users to create analyze and save complex geospatial data easily and effectively furthermore the chapters in this book are arranged in pedagogical sequence that makes it very effective in learning the features and capabilities of the software a real world project is given for the students to reinforce the concepts learned in the chapters salient features a comprehensive coverage of all concepts and tools of autocad map 3d 2018 consists of 11 chapters arranged in pedagogical sequence and a project contains 528 pages with hundreds of illustrations real world projects and examples focusing on industry experience step by step examples that guide the users through the learning process includes changes and enhancements specific to autocad map 3d 2018 effectively communicates the utility of autocad map 3d table of contents chapter 1 introduction to autocad map 3d 2018 chapter 2 getting started with autocad map 3d 2018 chapter 3 working with basic tools and coordinate systems chapter 4 working with feature data chapter 5 styling and querying feature data chapter 6 creating object data and attaching external database and query chapter 7 classifying objects and working with classified objects chapter 8 removing digitization errors and working with topologies chapter 9 data analysis chapter 10 working with different types of data chapter 11 editing a map and creating a map book project site suitability study index

Exploring AutoCAD Map 3D 2018, 8th Edition 2011-04-19 the autocad plant 3d 2020 for designers book introduces the readers to autocad plant 3d 2020 one of the world s leading application designed specifically to create and modify p id s and plant 3d models in this book the author emphasizes on the features of autocad plant 3d 2020 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 2020 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 2020 you will learn how to setup a project create and edit p ids design a 3d plant model generate isometric orthographic drawings as well as how to publish and print drawings salient features comprehensive coverage of autocad plant 3d 2020 concepts and techniques tutorial approach to explain the concepts of autocad plant 3d 2020 detailed explanation of all commands and tools summarized content on the first page of the topics that are covered in the chapter step by step instructions to guide the users through the learning process real world mechanical engineering designs as tutorials 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 table of contents chapter 1 introduction to autocad plant 3d chapter 2 creating project and p ids 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

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