

## Hvac Revit Mep User Guide

Note: This learning guide is the second of a two-part series, with each guide sold separately. To take full advantage of Building Information Modeling, the Autodesk(R) Revit(R) 2022: Fundamentals for MEP guide has been designed to teach the concepts and principles of creating 3D parametric models of MEP system from engineering design through construction documentation. This guide is intended to introduce users to the software's user interface and the basic HVAC, electrical, and piping/plumbing components that make the Autodesk Revit software a powerful and flexible engineering modeling tool. The guide will also familiarize users with the tools required to create, document, and print the parametric model. The examples and practices are designed to take the users through the basics of a full MEP project from linking in an architectural model to construction documents. Topics Covered Working with the Autodesk Revit software's basic viewing, drawing, and editing commands. Inserting and connecting MEP components and using the System Browser. Review Revit file worksharing, terminology, and workflow. Working with linked Revit files and CAD files. Creating spaces and zones so that you can analyze heating and cooling loads. Creating HVAC networks with air terminals, mechanical equipment, ducts, and pipes. Creating plumbing networks with plumbing fixtures and pipes. Creating electrical circuits with electrical equipment, devices, and lighting fixtures and adding cable trays and conduits. Creating HVAC and plumbing systems with automatic duct and piping layouts. Testing duct, piping, and electrical systems. Creating and annotating construction documents. Adding tags and creating schedules. Detailing in the Autodesk Revit software. Prerequisites Access to the 2022.0 version of the software, to ensure compatibility with this guide. Future software updates that are released by Autodesk may include changes that are not reflected in this guide. The practices and files included with this guide might not be compatible with prior versions (e.g., 2021). This guide introduces the fundamental skills you need to learn the Autodesk Revit MEP software. It is highly recommended that you have experience and knowledge in MEP engineering and its terminology. It is recommended that users have a standard three-button mouse to successfully complete the practices in this guide.

To take full advantage of Building Information Modeling, the Autodesk(R) Revit(R) 2020: Fundamentals for MEP guide has been designed to teach the concepts and principles of creating 3D parametric models of MEP system from engineering design through construction documentation. This guide is intended to introduce users to the software's user interface and the basic HVAC, electrical, and piping/plumbing components that make the Autodesk Revit software a powerful and flexible engineering modeling tool. The guide will also familiarize users with the tools required to create, document, and print the parametric model. The examples and practices are designed to take the users through the basics of a full MEP project from linking in an architectural model to construction documents. Topics Covered Working with the Autodesk Revit software's basic viewing, drawing, and editing commands. Inserting and connecting MEP components and using the System Browser. Working with linked Revit files and CAD files. Creating spaces and zones so that you can analyze heating and cooling loads. Creating HVAC networks with air terminals, mechanical equipment, ducts, and pipes. Creating plumbing networks with plumbing fixtures and pipes. Creating electrical circuits with electrical equipment, devices, and lighting fixtures and adding cable trays and conduits. Creating HVAC and plumbing systems with automatic duct and piping layouts. Testing duct, piping and electrical systems. Creating and annotating construction documents. Adding tags and creating schedules. Detailing in the Autodesk Revit software. Prerequisites Access to the 2020 version of the software. The practices and files included with this guide might not be compatible with prior versions. This guide introduces the fundamental skills you need to learn the Autodesk Revit MEP software. It is highly recommended that you have experience and knowledge in MEP engineering and its terminology.

Autodesk Revit 2018 Architecture Certification Exam Study Guide is geared toward users who have been using Autodesk Revit for at least six months and are ready to pursue their official Autodesk Revit certification. This fast paced book will get you ready for the certification exams quickly with fun and easy to follow instructions, covering everything from masses to views to documentation. Autodesk offers two levels of certification exam: the Autodesk Certified User exam and the Autodesk Certified Professional exam. This book covers both of the Autodesk Revit certification exams using step-by-step instructions and is packed with valuable information you'll want to know before taking either of these exams. This book will get you up to speed quickly on the nature of these exams' questions so you will know exactly what to expect on exam day. This book is the most comprehensive and thorough preparation for these exams available. Included are exercises, practice questions and exam simulations which are intended to simulate knowledge users should have in order to pass the certification exams. Also included with this book are two complete practice exams: one for the certified user exam and the other for the certified professional exam. These practice exams are programs that can be run on your windows computer. Each exam is timed and designed to simulate the type of questions you might encounter during the exams. Each chapter is organized into a few sections. The first part of every chapter gives you an overview of the topics covered in that chapter. Next is a series of exercises designed to prepare you for the Certified User exam. After that is a series of exercises designed to prepare you for the Certified Professional exam. Finally, every chapter concludes with two quizzes, modeled around the two exams, to test your knowledge of the information covered in that chapter. The competition for jobs is steep, and employers can afford to be picky. Being a certified Autodesk Revit User or Professional is an excellent way to distinguish yourself amongst other professionals and prove to employers that you possess a high level of knowledge and skills.

Autodesk Revit 2018 MEP Fundamentals - Metric Units Autodesk Authorized Publisher Ascent, Center for Technical Knowledge

Packed with vivid illustrations and a complete set of commercial prints, best-selling BLUEPRINTS AND PLANS FOR HVAC, 4th Edition combines in-depth instruction with relevant hands-on applications to equip you with the skills to succeed in the workplace. Now in an engaging four-color format, this popular text will help you master the basics of blueprint reading and apply these new skills in the HVAC trade. This Fourth Edition has been updated to include the latest codes and technological advancements, while still covering all the critical areas of study, including using the architect's and engineer's scale, creating and using working and construction drawings and freehand sketching and drafting with instruments. In addition, the new CourseMate solution includes extra activities and CAD files to increase the number of real-world exercises. Practical, current and exceedingly accurate, BLUEPRINTS AND PLANS FOR HVAC, 4th Edition will serve you in the classroom and beyond. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

An outstanding tutorial and reference for Autodesk Revit MEP This Autodesk Official Training Guide is the detailed reference and tutorial you need to master the powerful Autodesk Revit MEP 2013 building information modeling software. The expert authors combine their considerable mechanical, electrical, and plumbing experience to help you quickly learn the interface and tools, get hands-on practice with real-world projects and tutorials, and master expert techniques and tricks that only pros who use the software on a daily basis know. Explains how to integrate Revit MEP 2013 into workflows, worksharing, and schedules Covers using Revit MEP for mechanical design, including HVAC load analysis and designing ductwork and piping Covers using Revit MEP for electrical design, including lighting, power, communications, and circuits Covers using Revit MEP for plumbing design, including water systems, fixtures, sanitary piping, and fire protection Shows how to prepare models for analysis and import/export gbxml (green building xml) files Addresses managing content, from symbols and annotations to creating devices, adding details, and producing sheets Mastering Autodesk Revit MEP 2013 is the complete guide to this popular software, with a companion website that provides before-and-after tutorial files so you can compare your work to that of professionals.

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The competition for jobs is steep, and employers can afford to be picky. Being a certified Revit Associate or Professional is an excellent way to distinguish yourself amongst other professionals and provide potential employers a sense of security knowing that you possess a high level of knowledge and skills. This book is geared toward users who have been using Revit for at least six months and are ready to pursue their official Autodesk Revit certification. Autodesk offers two levels of certification exams: an Associate certificate and a Professional certificate. This book uses step-by-step instructions to prepare you to take both of these tests. The Unofficial Revit 2012 Certification Exam Guide is a concise book that will get you up to speed quickly on the nature of the exam's questions so you will know exactly what to expect on exam day. This book provides the most comprehensive and thorough preparation for these exams available. Included are exercises and practice questions which simulate knowledge users should have in order to pass the certification exams.

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To take full advantage of Building Information Modeling, the Autodesk(R) Revit(R) 2018 MEP: Fundamentals student guide has been designed to teach the concepts and principles of creating 3D parametric models of MEP system from engineering design through construction documentation. The student guide is intended to introduce students to the software's user interface and the basic HVAC, electrical, and piping/plumbing components that make the Autodesk Revit software a powerful and flexible engineering modeling tool. The student guide will also familiarize students with the tools required to create, document, and print the parametric model. The examples and practices are designed to take the students through the basics of a full MEP project from linking in an architectural model to construction documents. Topics Covered Working with the Autodesk Revit software's basic viewing, drawing, and editing commands. Inserting and connecting MEP components and using the System Browser. Working with linked architectural files. Creating spaces and zones so that you can analyze heating and cooling loads. Creating HVAC networks with air terminals, mechanical equipment, ducts, and pipes. Creating plumbing networks with plumbing fixtures and pipes. Creating electrical circuits with electrical equipment, devices, and lighting fixtures and adding cable trays and conduits. Creating HVAC and plumbing systems with automatic duct and piping layouts. Testing duct, piping and electrical systems. Creating and annotating construction documents. Adding tags and creating schedules. Detailing in the Autodesk Revit software. Prerequisites This student guide introduces the fundamental skills in learning the Autodesk Revit MEP software. It is highly recommended that students have experience and knowledge in MEP engineering and its terminology.

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The ultimate reference and tutorial to harness the power of Revit MEP This Autodesk Official Press book will help you develop your expertise with Revit MEP's core concepts and functionality. Based on the authors' years of real-world experience, this comprehensive reference and tutorial has been updated to cover all of the new features of Revit MEP, and includes best practices, techniques, tips, tricks, and real-world exercises to help you hone your skills. Shows how to use the interface effectively, explains how to create and use project templates, and details ways you can improve efficiency with worksharing and collaboration Addresses generating schedules that show quantities, materials, design dependencies, and more Looks at creating logical air, water, and fire protection systems; evaluating building loads; and placing air and water distribution equipment Covers lighting, power receptacles and equipment, communication outlets and systems, and circuiting and panels Zeroes in on creating water systems, plumbing fixtures and their connectors, water piping, and more Featuring real-world scenarios and hands-on tutorials, this Autodesk Official Press book features downloadable before-and-after tutorial files so that you can compare your finished work to that of the professionals. It's the perfect resource for becoming a Revit MEP expert.

Get up and running on Autodesk Revit MEP 2016 with this detailed, hands-on guide Mastering Autodesk Revit MEP 2016 provides perfectly paced coverage of all core concepts and functionality, with tips, tricks, and hands-on exercises that help you optimize productivity. With a focus on real-world uses and workflows, this detailed reference explains Revit MEP tools and functionality in the context of professional design and provides the practical insight that can only come from years of experience. Coverage includes project setup, work sharing, building loads, ductwork, electrical and plumbing, and much more, with clear explanation every step of the way. The companion website features downloadable tutorials that reinforce the material presented, allowing you to jump in at any point and compare your work to the pros. This is your guide to master the capabilities of this essential productivity-enhancing tool. Generate schedules that show quantities, materials, design dependencies, and more Evaluate building loads, and design logical air, water, and fire protection systems Create comprehensive electrical and plumbing plans tailored to the project Model your design with custom parameters, symbols, fixtures, devices, and more If you're ready to get on board this emerging design, collaboration, and documentation paradigm, Mastering Autodesk Revit MEP 2016 is the one-stop resource you need.

The advent of connected, smart technologies for the built environment may promise a significant value that has to be reached to develop digital city models. At the international level, the role of digital twin is strictly related to massive amounts of data that need to be processed, which proposes several challenges in terms of digital technologies capability, computing, interoperability, simulation, calibration, and representation. In these terms, the development of 3D parametric models as digital twins to evaluate energy assessment of private and public buildings is considered one of the main challenges of the last years. The ability to gather, manage, and communicate contents related to energy saving in buildings for the development of smart cities must be considered a specificity in the age of connection to increase citizen awareness of these fields. The Handbook of Research on Developing Smart Cities Based on Digital Twins contains in-depth research focused on the description of methods, processes, and tools that can be adopted to achieve smart city goals. The book presents a valid medium for disseminating innovative data management methods related to smart city topics. While highlighting topics such as data visualization, a web-based ICT platform, and data-sharing methods, this book is ideally intended for researchers in the building industry, energy, and computer science fields; public administrators; building managers; and energy professionals along with practitioners, stakeholders, researchers, academicians, and students interested in the implementation of smart technologies for the built environment.

Discover BIM: A better way to build better buildings Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Third Edition provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include: Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working, national and major construction clients, BIM standards and guides A discussion on how various professional roles have expanded through the widespread use and the new avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful and thorough picture of the state of the art in building information modeling, the BIM Handbook, Third Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.

"The BIM Handbook is an extensively researched and meticulously written book, showing evidence of years of work rather than something that has been quickly put together in

the course of a few months. It brings together most of the current information about BIM, its history, as well as its potential future in one convenient place, and can serve as a handy reference book on BIM for anyone who is involved in the design, construction, and operation of buildings and needs to know about the technologies that support it. The need for such a book is indisputable, and it is terrific that Chuck Eastman and his team were able to step up to the plate and make it happen. Thanks to their efforts, anyone in the AEC industry looking for a deeper understanding of BIM now knows exactly where to look for it." —AECbytes book review, August 28, 2008

([www.aecbytes.com/review/2008/BIMHandbook.html](http://www.aecbytes.com/review/2008/BIMHandbook.html)) DISCOVER BIM: A BETTER WAY TO BUILD BETTER BUILDINGS Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Second Edition provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include: Completely updated material covering the current practice and technology in this fast-moving field Expanded coverage of lean construction and its use of BIM, with special focus on Integrated Project Delivery throughout the book New insight on the ways BIM facilitates sustainable building New information on interoperability schemas and collaboration tools Six new case studies Painting a colorful and thorough picture of the state of the art in building information modeling, the BIM Handbook, Second Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources. The best tutorial and reference to provide extensive coverage of Revit MEP This perfectly paced Autodesk Official Training Guide covers all the core concepts and functionality of Revit MEP, Autodesk's hot mechanical, engineering, and plumbing software. Hands-on, real-world tutorials reinforce the detailed discussions on a variety of Revit MEP topics, including interface, project setup and templates, worksharing, as well as such mechanical concerns as building loads and ductwork, such electrical concerns as lighting and communications outlets, and such plumbing concerns as fixtures and water systems. Serves as the only hands-on reference and tutorial to cover Autodesk Revit MEP in exhaustive detail Explores the interface and walks you through creating and using project templates Devotes extensive coverage to each aspect of Revit MEP: mechanical, electrical, and plumbing Includes chapters on solid modeling, creating symbols, using parameters, creating equipment, and more Shares tips, tricks, and real-world exercises that only professionals who use the software every day can provide To strengthen the learning experience, readers can download before-and-after tutorial files from the supporting web site so they can jump into any tutorial and immediately compare their work to that of the professionals.

AutoCAD MEP 2018 for Designers book is written to help the readers effectively use the designing and drafting tools of AutoCAD MEP 2018. This book provides detailed description of the tools that are commonly used in designing HVAC system, piping system, and plumbing system as well as in designing the electrical layout of a building. The AutoCAD MEP 2018 for Designers book further elaborates on the procedure of generating the schematic drawings of a system, which are used for schematic representation of a system. 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 textbook with the practical industry designs. Salient Features: Consists of 9 chapters and 2 real-world projects that are organized in pedagogical sequence. The author has followed the tutorial approach to explain various concepts of AutoCAD MEP 2018. Detailed explanation of AutoCAD MEP 2018 commands and 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 AutoCAD MEP 2018 concepts and techniques. Step-by-step instructions that guide the users through the learning process. More than 10 real-world mechanical engineering designs as tutorials and projects. Additional information is provided throughout the book in the form of notes and tips. Self-Evaluation Tests and Review Questions at the end of each chapter so that the users can assess their knowledge. Technical support by contacting 'techsupport@cadcim.com'. Additional learning resources at '<https://allaboutcadcam.blogspot.com>'. Table of Contents Chapter 1: Introduction to AutoCAD MEP Chapter 2: Getting Started with AutoCAD MEP Chapter 3: Working with Architecture Workspace Chapter 4: Creating an HVAC System Chapter 5: Creating Piping System Chapter 6: Creating Plumbing System Chapter 7: Creating Electrical System Layout Chapter 8: Representation and Schedules Chapter 9: Working with Schematics Project 1: Creating Complete System of a Forging Plant Project 2: Creating Complete Commercial Office Building Index

Exploring Autodesk Revit 2019 for MEP textbook covers the detailed description of all basic and advanced workflows and tools to accomplish an MEPF (Mechanical, Electrical, Plumbing, and Fire Fighting) project in a BIM environment. It explores the processes involved in Building Information Modeling. The topics covered in this textbook range from creating building components, HVAC system, electrical system, plumbing system, and Fire protection system to designing conceptual massing, performing HVAC heating and loading analysis, and creating rich construction documentation. Salient Features: Comprehensive textbook that covers all major Revit MEP tools and concepts. Coverage of advanced concepts such as worksharing, families, and system creation. Detailed description on building envelope, spaces and zones, HVAC system, electrical system, fire fighting system, and plumbing system. Step-by-step explanation that guides the users through the learning process. Effectively communicates the utility of Revit 2019 for MEP. Self-Evaluation Test and Review Questions at the end of chapters for self assessment Table of Contents Chapter 1: Introduction to Autodesk Revit 2019 for MEP Chapter 2: Getting Started with an MEP Project Chapter 3: Creating Building Envelopes Chapter 4: Creating Spaces and Zones, and Performing Load Analysis Chapter 5: Creating an HVAC System Chapter 6: Creating an Electrical System Chapter 7: Creating Plumbing Systems Chapter 8: Creating Fire Protection System Chapter 9: Creating Construction Documents Chapter 10: Creating Families and Worksharing Index What's New? In 2019 version assign Energy Analysis Space Type information for each space for better Cooling Loads Calculation. ----- The purpose of this book is to provide

efficient materials for those who want to learn the software of Autodesk Revit, especially for those who are interesting in building MEP systems. [https://youtu.be/BUAhb\\_\\_xnbU](https://youtu.be/BUAhb__xnbU) This book is ideal for school students and instructors. It also helps MEP professionals who want to add this software tool to enhance their works. As the title "Step by Step" of this book implies, readers will exercise the software from the beginning to the end of the modeling. That's how you get the whole picture of the entire story and learn the software. This book covers five major disciplines of MEP systems: • Mechanical • Hydronic Piping • Electrical • Plumbing • Fire Protection Besides the modeling of 3D Duct Works, Conduits and Piping, it also covers Energy Analysis, Lighting Calculation, Schedule Creations and many MEP related Properties. The last two are really the heart of Building Information. Author also included a bonus chapter of Architectural Modeling that will give reader extra background and experience of the software. I wrote this book in two versions: Imperial and Metric. Reader can choose the one to suit his/her need. With 1000+ steps, 1000+ figures, 60+ exercise files (download from author's Google Drive) to guide you to complete the entire modeling of a building, there is no reason you cannot succeed Autodesk Revit MEP.

The definitive guide to Autodesk Revit MEP The expert author team for this Autodesk Official Press book has employed their years of experience to develop this exhaustive reference and tutorial, which is perfectly paced to cover all the core concepts and functionality of Revit MEP including: Navigating the interface Project setup and templates Worksharing Mechanical concerns such as building loads and ductwork Electrical concerns such as lighting and communications outlets Plumbing concerns such as fixtures and water systems This revision covers all of Revit MEP's new features and includes more advanced electrical and plumbing information. In addition, the book features real-world sidebars and hands-on tutorials that reinforce the detailed discussions, along with downloadable before-and-after tutorial files to help you complete the hands-on projects. This Autodesk Official Press book is the perfect resource for becoming a Revit MEP expert.

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Discover BIM: A better way to build better buildings. Building Information Modeling (BIM) is a new approach to design, construction, and facility management in which a digital representation of the building process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. BIM Handbook: A Guide to Building Information Modeling for Owners, Managers, Designers, Engineers, and Contractors provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. The Handbook: Introduces Building Information Modeling and the technologies that support it Reviews BIM and its related technologies, in particular parametric and object-oriented modeling, its potential benefits, its costs, and needed infrastructure Explains how designing, constructing, and operating buildings with BIM differs from pursuing the same activities in the traditional way using drawings, whether paper or electronic Discusses the present and future influences of BIM on regulatory agencies; legal practice associated with the building industry; and manufacturers of building products Presents a rich set of BIM case studies and describes various BIM tools and technologies Shows how specific disciplines owners, designers, contractors, and fabricators can adopt and implement BIM in their companies Explores BIM's current and future impact on industry and society Painting a colorful and thorough picture of the state of the art in Building Information Modeling, the BIM Handbook guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to build better buildings, that consume fewer materials, and require less time, labor, and capital resources.

To take full advantage of Building Information Modeling, the Autodesk(R) Revit(R) 2019.0: Fundamentals for MEP guide has been designed to teach the concepts and principles of creating 3D parametric models of MEP system from engineering design through construction documentation. The learning guide is intended to introduce students to the software's user interface and the basic HVAC, electrical, and piping/plumbing components that make the Autodesk Revit software a powerful and flexible engineering modeling tool. The learning guide will also familiarize students with the tools required to create, document, and print the parametric model. The examples and practices are designed to take the students through the basics of a full MEP project from linking in an architectural model to construction documents. Topics Covered Working with the Autodesk Revit

software's basic viewing, drawing, and editing commands. Inserting and connecting MEP components and using the System Browser. Working with linked Revit files and CAD files. Creating spaces and zones so that you can analyze heating and cooling loads. Creating HVAC networks with air terminals, mechanical equipment, ducts, and pipes. Creating plumbing networks with plumbing fixtures and pipes. Creating electrical circuits with electrical equipment, devices, and lighting fixtures and adding cable trays and conduits. Creating HVAC and plumbing systems with automatic duct and piping layouts. Testing duct, piping and electrical systems. Creating and annotating construction documents. Adding tags and creating schedules. Detailing in the Autodesk Revit software. Prerequisites Access to the 2019.0 version of the software. The practices and files included with this guide might not be compatible with prior versions. This learning guide introduces the fundamental skills in learning the Autodesk Revit MEP software. It is highly recommended that students have experience and knowledge in MEP engineering and its terminology.

A must-have reference to create content-rich BIM objects and models A cutting-edge technology, Building Information Modeling (BIM) software allows AEC professionals to produce data-intensive 3D building models that far exceed those rendered with the 2D limitations of CAD, today's industry standard. Unlike CAD, however, no consensus has been reached among AEC industries for agreed upon guidelines directing BIM models. To fill this void, this book explores the different approaches used in designing a BIM model and incorporates them into one cohesive strategy that serves as a digital road map going forward. BIM Content Development: Details the various types of information (graphic and data) that Building Information Modeling (BIM) can gather about a building, such as its dimensions and material, its performance, its functionality, its interaction with other structures, and how often it must be maintained Presents a vendor-neutral approach to thinking about, organizing, and managing data used to create a 3D building model Covers the different methods for organizing content, such as CSI's MasterFormat®, Uniformat, OmniClass, and Industry Foundation Classes (IFC) Providing the means and methods for effective content creation, BIM Content Development offers sound guidance for graphic standards and data management solutions to maximize the ability of professionals to operate on any BIM software platform—and shows how to strengthen the decision-making process to unleash powerful tools for modeling a building's informational profile.

Exploring Autodesk Revit 2021 for MEP book covers the detailed description of all basic and advanced workflows and tools to accomplish an MEPF (Mechanical, Electrical, Plumbing, and Fire Fighting) project in a BIM environment. It explores the processes involved in Building Information Modeling. The topics covered in this book range from creating building components, HVAC system, electrical system, plumbing system, and Fire protection system to designing conceptual massing, performing HVAC heating and loading analysis, and creating rich construction documentation. In Revit MEP 2021 book, special emphasis has been laid on the concepts of space modeling and tools to create systems for all disciplines (MEP). Each concept in this book is explained using the detailed description and relevant graphical examples and illustrations. The accompanying tutorials and exercises, which relate to the real world projects, help you understand the usage and abilities of the tools available in Autodesk Revit 2021. In addition, the chapters in this book are punctuated with tips and notes to make the concepts clear, thereby enabling the readers to create their own innovative projects. Salient Features Comprehensive book that covers all major Revit MEP tools and concepts. Coverage of advanced concepts such as worksharing, families, and system creation. Detailed description on building envelope, spaces and zones, HVAC system, electrical system, fire fighting system, and plumbing system. Step-by-step explanation that guides the users through the learning process. Effectively communicates the utility of Revit 2021 for MEP. Self-Evaluation Test and Review Questions at the end of chapters for self assessment. Table of Contents Chapter 1: Introduction to Autodesk Revit 2021 for MEP Chapter 2: Getting Started with an MEP Project Chapter 3: Creating Building Envelopes Chapter 4: Creating Spaces and Zones, and Performing Load Analysis Chapter 5: Creating an HVAC System Chapter 6: Creating an Electrical System Chapter 7: Creating Plumbing Systems Chapter 8: Creating Fire Protection System Chapter 9: Creating Construction Documents Chapter 10: Creating Families and Worksharing Index

The Aubin Academy Master Series: Revit® MEP is the ideal book to help readers successfully use Revit MEP. It is a concise manual focused squarely on the rationale and practicality of the Revit MEP Building Information Model (BIM) process. The book emphasizes the process of creating projects in MEP rather than a series of independent commands and tools. The goal of each lesson is to help the reader complete their projects successfully. Tools are introduced together in a focused process with a strong emphasis on “why” as well as “how.” The text and exercises seek to give the reader a clear sense of the value of the tools, and a clear indication of each tool's potential. The Aubin Academy Master Series: Revit MEP is a resource designed to shorten your learning curve, raise your comfort level, and, most importantly, give you real-life tested practical advice on the usage of the software to create mechanical, electrical, and plumbing designs, and calculations. Empowered with the information within this book, you will have insight into how to use Revit MEP to create coordinated BIM project models and documentation. Includes practical project focused how-to exercises where readers learn by “doing”. Focused on MEP Production so readers can learn to create a coordinated BIM model and documentation set. Written by authors with over 75 years of combined real-World architectural and MEP industry experience. Provides “Power User/BIM Manager” tips throughout. Includes free online download of complete dataset of project files to follow along in the exercises.

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