

# Mechanical Electrical Plumbing Mep Engineer

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 new threshold for green building is not just low energy, it's net-zero energy. In The New Net Zero, sustainable architect Bill Maclay charts the path for designers and builders interested in exploring green design's new-frontier

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net-zero-energy structures that produce as much energy as they consume and are carbon neutral. In a nation where traditional buildings use roughly 40 percent of the total fossil energy, the interest in net-zero building is growing enormously--among both designers interested in addressing climate change and consumers interested in energy efficiency and long-term savings. Maclay, an award-winning net-zero designer whose buildings have achieved high-performance goals at affordable costs, makes the case for a net-zero future; explains net-zero building metrics, integrated design practices, and renewable energy options; and shares his lessons learned on net-zero teambuilding. Designers and builders will find a wealth of state-of-the-art information on such considerations as air, water, and vapor barriers; embodied energy; residential and commercial net-zero standards; monitoring and commissioning; insulation options; costs; and more. The comprehensive overview is accompanied by several case studies, which include institutional buildings, commercial projects, and residences. Both new-building and renovation projects are covered in detail. The New Net Zero is geared toward professionals exploring net-zero design, but also suitable for nonprofessionals seeking ideas and strategies on net-zero options that are beautiful and renewably powered. What's New? In 2020 version author add a Tag Circuits unit to demonstrate how to use combined annotation tags with panel name and circuit number to tag electrical circuits.

----- 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. 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,

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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.

Learn the basics of MEP design in Revit 2019. This course focuses on the four major trades of MEP engineering?mechanical, electrical, plumbing, and fire protection?using examples in imperial units (inches and feet). Learn the basics of MEP design in Revit 2018. This course focuses on the four major trades of MEP engineering?mechanical, electrical, plumbing, and fire protection?using examples in metric units (meters and centimeters).

Challenges, Opportunities and Solutions in Structural Engineering and Construction addresses the latest developments in innovative and integrative technologies and solutions in structural engineering and construction, including: Concrete, masonry, steel and composite structures; Dynamic impact and earthquake engineering; Bridges and Prepare for the LEED Green Associate v4 exam with an expert who has been there – and passed! Guide to the LEED Green Associate V4 Exam is a comprehensive study guide

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for the LEED Green Associate v4 exam. Written by a LEED expert and consultant who actually passed the exam, this guide provides a first-hand account of preparation strategies that work. The book is designed to work with how people study, organized for quick navigation, with sample questions and flashcards throughout. The companion website offers additional study aids, including more sample test questions and flashcards. The book covers all topics and principles included on the exam, and provides all the information necessary to pass. Passing the LEED Green Associate v4 exam is the only way to get the Green Associate credential, so a complete, comprehensive study guide is essential. The Guide to the LEED Green Associate Exam has been updated specifically to align with the most current version of the exam. Topics include: The three tiers of the credentialing process Concepts and processes of sustainable design LEED design strategies and technologies How and what to study for the exam Beyond just providing information, this book offers the insight of someone who's been there, and can manage expectations and eliminate surprises. Motivating, engaging, and packed with expert advice, the Guide to the LEED Green Associate Exam helps eager professionals prepare for – and pass – the LEED Green Associate v4 exam.

"A guide based upon the LEED v3 rating system"--Cover.

"The members of 7group and Bill Reed are examples writ large of the kind of leadership that is taking this idea of green building and forming it into reality, by helping change minds, building practice, and design process." —from the Foreword by S. Rick Fedrizzi President, CEO, and Founding Chair, U.S. Green Building Council A whole-building approach to

sustainability The integrative design process offers a new path to making better green building decisions and addressing complex issues that threaten living systems. In *The Integrative Design Guide to Green Building: Redefining the Practice of Sustainability*, 7group's principals and integrative design pioneer Bill Reed introduced design and construction professionals to the concepts of whole building design and whole systems. With integrative thinking that reframes what sustainability means, they provide a how-to guide for architects, designers, engineers, developers, builders, and other professionals on incorporating integrative design into every phase of a project. This practical manual: Explains the philosophy and underpinnings of effective integrative design, addressing systems thinking and building and community design from a whole-living system perspective Details how to implement integrative design from the discovery phase to occupancy, supported by process outlines, itemized tasks, practice examples, case studies, and real-world stories illustrating the nature of this work Explores the deeper understanding of integration that is required to transform architectural practice and our role on the planet This book, both practical and thoughtful, will help you deliver your vision of a sustainable environment. 7group, based in Kutztown, Pennsylvania, includes principals John Boecker, Scot Horst, Tom Keiter, Andrew Lau,

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Marcus Sheffer, and Brian Toevs, who bring a unique integration of expertise in design, engineering, energy and daylight modeling, materials assessments, commissioning, education, and communications to their work. Internationally recognized thought leaders in the green building movement, they have led countless teams through the practical implementation of integrative design on building projects of all types around the world. 7group also has been directly and deeply involved with the development of the LEED® Green Building Rating System, including experience on more than 100 LEED projects. Scot Horst currently serves as chair of the U.S. Green Building Council's LEED Steering Committee.

Covers the most recent topics in the field of environmental management and provides a broad focus on the theoretical and methodological underpinnings of environmental management Provides an up-to-date survey of the field from the perspective of different disciplines Covers the topic of environmental management from multiple perspectives, namely, natural sciences, engineering, business, social sciences, and methods and tools perspectives Combines both academic rigor and practical approach through literature reviews and theories and examples and case studies from diverse geographic areas and policy domains Explores local and global issues of environmental

management and analyzes the role of various contributors in the environmental management process Chapter contents are appropriately demonstrated with numerous pictures, charts, graphs, and tables, and accompanied by a detailed reference list for further readings

The best-selling Revit guide, now more complete than ever with all-new coverage on the 2020 release Mastering Autodesk Revit 2020 is packed with focused discussions, detailed exercises, and real-world examples to help you get up to speed quickly on the latest version of Autodesk Revit. Organized according to how you learn and implement the software, this book provides expert guidance for all skill levels. Hands-on tutorials allow you to dive right in and start accomplishing vital tasks, while compelling examples illustrate how Revit for Architecture is used in every project. Available online downloads include before-and-after tutorial files and additional advanced content to help you quickly master this powerful software. From basic interface topics to advanced visualization techniques and documentation, this invaluable guide is your ideal companion through the Revit workflow. Whether you're preparing for Autodesk certification exams or just want to become more productive with the architectural design software, practical exercises and expert instruction will get you where you need to be. Understand key BIM and Revit concepts and master

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the Revit interface Delve into templates, work-sharing, and managing Revit projects Master modeling and massing, the Family Editor, and visualization techniques Explore documentation, including annotation, detailing, and complex structures BIM software has become a mandatory asset in today's architecture field; automated documentation updates reduce errors while saving time and money, and Autodesk's Revit is the industry leader in the BIM software space.

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



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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. Revised and updated to the latest release of the software 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.

Practical Guides to Testing and Commissioning of Mechanical, Electrical and Plumbing (Mep) Installations Partridge Publishing Singapore

A career guide for professionals in sustainable architecture, design, planning, development, and related consulting For those considering a new career or a career change focused on green and sustainable building and design, *Becoming a Green Building Professional* offers practical information on educational requirements, career options, guidance and tips, and first-hand interviews with green building professionals. Perfect for underemployed architects and other building and design professionals who want to reinvent and renew their careers, as well as students considering such a

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career, this is a vital and informative guide to a growing field.

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

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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 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

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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.

How did the essential buildings in New Orleans perform both during and after Hurricane Katrina? With limited resources and restricted access, ASCE's Architectural Engineering Institute (AEI) sent a team to study five facilities in New Orleans, on December 5, 2005.

Essential buildings are expected to be minimally damaged and remain operational during extreme events. How is it that, of the facilities inspected, only one performed successfully as a storm shelter during Hurricane Katrina? This report presents the findings of this investigation. It is organized into chapters addressing the performance of:

- ¿ Mechanical/electrical/plumbing (MEP) systems
- ¿ Building envelopes
- ¿ Structural systems
- ¿ Fire protection and life safety systems
- ¿ Communication systems

The final chapter of Multidisciplinary Assessment of Critical Facility Response to Natural Disasters: The Case of Hurricane Katrina presents a new approach to multidisciplinary risk assessment. Building evaluations in the aftermath of catastrophic events should adopt and build upon the methodology in this book.

"The BIM Handbook presents the technology and processes behind BIM and how architects, engineers,

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contractors and sub-contractors, construction and facility owners (AECO) can take advantage of the new technology and work process. Unlike CAD, BIM is a major paradigm shift in the documentation, work processes and exchange of project information. It facilitates collaboration and further automation, in both design and construction. AEC professionals need a handbook to guide them through the various BIM technologies and related processes. The collaborative nature of BIM requires professionals to view BIM from various industry perspectives and understand how BIM supports multiple project participants. The BIM Handbook reviews BIM processes and tools from multiple perspectives: the owner, architects and engineers, contractors, subcontractors and fabricators"-- Solar Energy is an authoritative reference on the design of solar energy systems in building projects, with applications, operating principles, and simple tools for the construction, engineering, and design professional. The book simplifies the solar design and engineering process, providing sample documentation and special tools that provide all the information needed for the complete design of a solar energy system for buildings to enable mainstream MEP and design firms, and not just solar energy specialists, to meet the growing demand for solar energy systems in building projects.

"In this Revit MEP 2016 training course, expert author Tim Dunder teaches you the basics of using Revit to design mechanical, electrical, and plumbing systems. This course is designed for the absolute beginner, meaning no previous Revit MEP experience is

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necessary. You will start with a tour of the 2016 user interface, including how to customize the interface and use keyboard shortcuts. You will then learn how to use the basic creation and editing tools, such as copy and paste, rotate, mirror, and extend and trim. Tim will show you how to start a new MEP project, explaining the various views, spaces, and zones you will be working with. This video tutorial also covers topics including building performance analysis, HVAC, hydronic piping systems, and plumbing and fire protection systems. You will also learn about electrical systems and electrical panel schedules. Finally, you will learn about documentation, how to set up and use worksharing, and how to present your finished projects."--Resource description page.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. The book provides comprehensive, easy-to-understand introductory coverage of mechanical and electrical systems in buildings. Elementary engineering concepts and step-by-step design principles are introduced in a straightforward manner and supported by over 320 illustrations and 500 photographs. It includes new chapters on emerging sustainability (green) technologies and building science. It presents material that can provide the future architect, architectural engineer, and architectural engineering technician with a basic working-level knowledge of principles and practices. This book is written specifically for those interested in building heating, ventilating and air

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conditioning (HVAC), plumbing and piping (water supply and sanitary drainage), storm drainage, illumination, electrical power distribution, building telecommunications, acoustics and acoustical control, vertical/horizontal transportation and conveying, fire protection and suppression, and building renewable energy and energy conservation systems.

Over 600 pages of mechanical, electrical, and plumbing data in a quick reference format--the kind of info that construction officials, architects, and engineers ask for. Features detailed schematic diagrams of the most common types of HVAC systems, along with detailed specs and installation tips. Tips and guidelines can also be used as a convenient inspection checklist.

Nine certified and licensed expert professionals reveal answers that will transform your work place into a place for profit.

Learn the basics of MEP design in Revit 2017. This course focuses on the four major trades of MEP engineering?mechanical, electrical, plumbing, and fire protection?using examples in imperial units (inches and feet).

This book will provide guide lines for Electrical Engineers, Mechanical Engineers and Fire Services Engineers on how to prepare technical parts of a T&C Method Statement submission for their MEP contracts. For Project Directors, Project Managers and Resident Staff it serves as a check list to ensure that all equipment are tested properly for energy saving and their resilience. Learn Revit Architecture with expert instruction from thisAutodesk Official Press guide The new edition of this

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bestselling Revit book is the most useful and approachable Mastering Revit Architecture yet. Thoroughly revised and updated, this comprehensive guide to Autodesk's industry-leading building information modeling (BIM) software features in-depth explanations, real-world examples, and practical tutorials help you grasp crucial tools, techniques, and concepts so you can quickly start doing real work in Revit. You will learn core BIM concepts and best practices for everything from putting together impressive building designs to producing solid documentation, creating visualizations that impress clients, and more. Hands-on exercises with downloadable before-and-after files provide plenty of opportunities to practice the real-world scenarios and hone all the crucial Revit skills. Explains the user interface, general concepts, best practices, and new features of Revit 2014 Teaches modeling, massing, and visualization with Revit Helps users develop extended modeling skills for walls, stairs, floors, and more Features detailed documentation and presentation techniques Provides detailed instruction, step-by-step tutorials, and numerous examples Includes downloadable starting and ending files and additional advanced content Offers information to help readers prepare for Autodesk's certification exams This detailed reference and tutorial is the perfect resource for becoming an expert with Autodesk's powerful BIM software. 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,



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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.

This book addresses various aspects of civil and mechanical engineering field. We have included numerous neatly drawn figures and problems with solutions for the better understanding of the subject. The book is organized in six modules as per the syllabus of the first/second semester B.Tech. course under APJ Abdul Kalam Technological University, Kerala.

The Ultimate Guide to Autodesk Revit Architecture 2015 Responding to reader and instructor feedback, the expert author team updated and refreshed the book's content to

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make it even more useful, complete, and approachable. Mastering Revit Architecture is organized by real-world workflows and features detailed explanations, interesting real-world examples, and practical tutorials to help readers understand Revit and BIM concepts so that they can quickly start accomplishing vital Revit tasks. Part I discusses key BIM and Revit concepts before giving readers a hands-on look at the Revit interface. Part II explores today's Revit workflows and introduces readers to templates, worksharing, and managing Revit projects. Part III dives into modeling and massing and offers detailed information on the crucial Family Editor as well as visualization techniques for various industries. Part IV covers documentation, including annotation and detailing, and explains how to work with complex walls, roofs and floors as well as curtain walls and advanced stair and railings. The companion website features before-and-after tutorial files (metric and Imperial sets), additional advanced content, and an hour of video on crucial techniques. Whether you are a beginner or an advanced Revit user, this book offers the detailed instruction you need to get the most out of this powerful software product.

Product architectures are becoming increasingly modular, along with the industries that produce them. Instead of a single integrated firm designing and producing an entire product, clusters of firms design and produce individual components that are later integrated. While modularity has often been hailed as a catalyst for innovation, I show that modularity can hinder some kinds of innovation. Within a modular system, innovations that

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are limited to individual modules without altering interfaces and processes (modular innovations) thrive, while innovations that cross module boundaries and alter interfaces and processes (integral innovations) are stifled. In a study of implementations of twenty three different technologies in one hundred and twelve US buildings, I demonstrate that the odds for integral innovations to be implemented are 84% lower than for modular innovations, even after accounting for technology costs and other factors. The primary underlying mechanism is that integral innovations involve a loss of the embedded coordination that standardization provides. Thus, I investigate supply chain integration as a moderator and a substitute for the lost coordination. I compare high integration (both vertical and horizontal), medium integration (either vertical or horizontal), and low integration (neither vertical nor horizontal). I demonstrate that as integration increases, so does the likelihood of implementing integral innovations. In fact, the odds of implementation of integral innovations increase by 542% in supply chains characterized by high levels of integration. Thus, I shed light on the relationship between an innovation's alignment with existing industry structure and standards and the complex moderating effect of supply chain integration in modular industries. In addition, I develop a comprehensive analytical framework to explain innovation diffusion in the construction industry -- integrating the supply chain learning and coordination issues discussed above with high levels of demand fluctuation, competitive bidding by trade, and broken agency.

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## Health Sciences & Nutrition

Mechanical, electrical, and plumbing (MEP) design is one of the major components of the BIM chain-and Revit is the design tool of choice for many MEP engineers.

This course focuses on the MEP features in the 2021 version of Revit. It was designed for MEP designers with a beginning to intermediate understanding of Revit. You can dive into a specific trade, or take the entire course to learn about all aspects of the vast Revit MEP ecosystem. Upon completion, you'll know how to create basic floor plans, design electric circuits and lighting systems, tackle a mechanical project, create plumbing plans, and document your designs for construction and fabrication. Instructor Eric Wing keeps the lessons short and focused, so you can get the most value from the time you spend training.

Using a concise and logical format that explains fundamentals in very simple terms--yet extensively--this book helps readers develop a working knowledge of the design decisions, equipment options, and operations of different building sub-systems. Readers will learn to design, size, and detail the different sub-systems installations, select fixtures and components, and integrate all the building sub-systems with site, building, foundations, structure, materials, and finishes. **KEY TOPICS:** Organized into four parts, topics include: Lighting chapters cover perceptions, lamps, luminaries, and design examples. Electrical chapters explain the energy form that lights, heats, cools, and powers buildings. Heating, ventilating, and air conditioning chapters show how to calculate heating/cooling costs for

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home/office, determine the size of air distribution components, and how to consider HVAC options and zoning for home/office. Water and plumbing chapters introduces water demand for buildings, plumbing systems for buildings, methods of site waterscape, and plumbing fixtures and components. MARKET: For architects, constructors, managers, occupants, and owners who wish to refine and improve their understanding of efficiency in building operation.

This book constitutes the refereed proceedings of the 12th IFIP WG 5.1 International Conference on Product Lifecycle Management, PLM 2015, held in Doha, Qatar, in October 2015. The 79 revised full papers were carefully reviewed and selected from 130 submissions. The papers are organized in the following topical sections: smart products, assessment approaches, PLM maturity, building information modeling (BIM), languages and ontologies, product service systems, future factory, knowledge creation and management, simulation and virtual environments, sustainability and systems improvement, configuration and engineering change, education studies, cyber-physical and smart systems, design and integration issues, and PLM processes and applications.

The book provides comprehensive, easy-to-understand introductory coverage of mechanical and electrical systems in buildings. Elementary engineering concepts and step-by-step design principles are introduced in a straightforward manner and supported by over 320 illustrations and 500 photographs. It includes new chapters on emerging sustainability (green) technologies

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and building science. It presents material that can provide the future architect, architectural engineer, and architectural engineering technician with a basic working-level knowledge of principles and practices. This book is written specifically for those interested in building heating, ventilating and air conditioning (HVAC), plumbing and piping (water supply and sanitary drainage), storm drainage, illumination, electrical power distribution, building telecommunications, acoustics and acoustical control, vertical/horizontal transportation and conveying, fire protection and suppression, and building renewable energy and energy conservation systems.

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