

Architectural Design With Sketchup 3D Modeling Extensions Bim Rendering Making And Scripting Second Edition

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3D Modeling (SketchUp) - AMC College

SketchUp is a 3D modeling software for creating geometric 3D objects such as architectural models, scale models, interior design items, and functional parts. The created object is called a 3D model and these 3-dimensional models are used in a variety of industries. The film, television, video games, architecture, construction, product development, science and medical industries all use 3D models to visualise, simulate and render graphic designs.

AutoCAD 2018 and AutoCAD LT 2018 Essentials - Scott Onstott 2017-05-24

The step-by-step, full-color AutoCAD 2018 guide with real-world practicality AutoCAD 2018 and AutoCAD LT 2018 Essentials provides a full-color, task-based approach to mastering this powerful software. Straightforward, easy-to-follow instruction pairs with real-world, hands-on exercises to help you quickly get up to speed with core features and functions; screenshots illustrate tutorial steps to help you follow along, and each chapter concludes with a more open-ended project so you can dive in and explore a specific topic in-depth. From 2D drawing and organization to 3D modeling, dimensioning, presenting, and more, this helpful guide walks you through everything you need to know to become productive with AutoCAD 2018 and AutoCAD LT 2018. The companion website features downloadable starting and ending files for each exercise, so you can jump in at any point and compare your work to the pros, as well as additional tutorials to help you go as deep as you need to go. Exercises walk you through the real-world process of drafting while teaching you critical skills along the way. Understand the AutoCAD interface and foundational concepts Master essential drawing and visualization tools Stay organized with layers, groups, and blocks Experiment with 3D modeling, add text and dimensions, and much more AutoCAD is the industry-leading technical drawing software, and complete mastery is a vital skill for any design and drafting professional. AutoCAD 2018 and AutoCAD LT 2018 Essentials is a smart, quick resource that will help you get up to speed with real-world practical instruction.

SketchUp for Interior Design - Lydia Sloan Cline 2014-01-28

A practical guide to SketchUp addressing the specific needs of interior designers Already a common and popular tool for architects and landscape architects, SketchUp is increasingly finding a place in the professional workflow of interior designers. SketchUp for Interior Design is a practical introduction for interior designers and students who want to learn to use the software for their unique needs. The book covers the basics of creating 3D models before showing how to create space plans, model furniture, cabinetry, and accessories, experiment with colors and materials, incorporate manufacturers' models into project plans, and create final presentations and animated walk-throughs for clients. Each chapter includes clear explanations and helpful illustrations to make this an ideal introduction to the topic. Includes downloadable sample models and 39 tutorial videos Features sample questions and activities for instructors and additional online resources for students and self-learners Provides instruction on using SketchUp in both PC and Mac formats

Play Among Books - Miro Roman 2021-12-06

How does coding change the way we think about architecture? This question opens up an important

research perspective. In this book, Miro Roman and his AI Alice_ch3n81 develop a playful scenario in which they propose coding as the new literacy of information. They convey knowledge in the form of a project model that links the fields of architecture and information through two interwoven narrative strands in an “infinite flow” of real books. Focusing on the intersection of information technology and architectural formulation, the authors create an evolving intellectual reflection on digital architecture and computer science.

Mastering Autodesk Revit 2018 - Lance Kirby 2017-07-17

The best-selling Revit guide, now more complete than ever with all-new coverage on the 2018 release Mastering Autodesk Revit 2018 for Architecture 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 for Architecture. 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 Architecture 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 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. *SketchUp For Dummies* - Bill Fane 2020-07-31

The first step in making your ideas a reality SketchUp offers a vast array of tools that help you get your building, woodworking, and design plans out of your head and into a real model. Even if you've never dabbled in the software, SketchUp All-in-One For Dummies makes it easy to get started as quickly as the ideas pop into your head! Providing real-world insight from top SketchUp insiders, these six-books-in-one teach you how to tackle the basics of the program and apply those skills to real-world projects. You'll discover the basics of modeling as they apply to either free or paid versions of SketchUp before diving into creating models to use for making objects, constructing buildings, or redesigning interiors. Navigate the SketchUp product mix Get familiar with the basics of modeling View and share your models Make your architecture, interior design, and woodworking dreams a reality You have tons of great ideas—and now you can harness this powerful software to bring them to life.

SketchUp for Site Design - Daniel Tal 2016-02-15

The site designer's guide to SketchUp's powerful modeling capabilities SketchUp for Site Design is the definitive guide to SketchUp for landscape architects and other site design professionals. Step-by-step

tutorials walk you through basic to advanced processes, with expert guidance toward best practices, customization, organization, and presentation. This new second edition has been revised to align with the latest software updates, with detailed instruction on using the newest terrain modeling tools and the newly available extensions and plug-ins. All graphics have been updated to reflect the current SketchUp interface and menus, and the third part of the book includes all-new content featuring the use of new grade and terrain extensions. Developed around the needs of intermediate professional users and their workflows, this book provides practical all-around coaching on using SketchUp specifically for modeling site plans.

SketchUp was designed for usability, with the needs of the architect, industrial designer, and engineers at center stage. This book shows you how the software's powerful terrain and grade functions make it an ideal tool for site designers, and how to seamlessly integrate it into your workflow for more efficient design and comprehensive planning. Master the SketchUp basics, navigation, components, and scripts Turn 2D sketches into 3D models with volume, color, and material Create detailed site plans, custom furnishings, gradings, and architecture Learn sandbox tools, organization strategies, and model presentation tips SketchUp has undergone major changes since the publication of this guide's first edition, with its sale to Trimble Navigation bringing about a number of revisions and the availability of more immediately useful features. SketchUp for Site Design shows you how to harness the power of this newly expanded feature set to smooth and optimize the site design workflow.

[Google SketchUp 7 For Dummies](#) - Aidan Chopra 2009-04-13

Google SketchUp is the exciting free software package that makes 3D available to everybody. Whether you need to build 3D models for work, or you've just always wanted to explore 3D modeling, Google SketchUp was made for you. Still, it does take a bit of understanding to get started, so turn to Google SketchUp 7 For Dummies. In classic For Dummies tradition, Google SketchUp 7 For Dummies gets right to the point so you can start creating 3D models right away. You'll learn to: Set up SketchUp, learn about edges and faces, use inferences and guides, and build your first model Establish a basic end-to-end workflow for creating and sharing models Model non-boxy objects like terrain, characters, bottles, and spheres Add details like stairs, gutters, and eaves Spruce up your models with styles and shadows to add effects, make objects pop, and enhance realism Use the LayOut function to draw with vector tools, add text and callouts, and print your work Design buildings and objects, export your models to other design programs or to Google Earth, and explore 3D animation On the book's companion Web site, you'll also find a bonus chapter and videos demonstrating more about what you can do with Google SketchUp. Google SketchUp 7 For Dummies also shows you what SketchUp can and can't do, and offers tips for solving common problems. Add a new dimension to your work today!

3D Printing with SketchUp - Marcus Ritland 2014-03

Fundamentals of Residential Construction - Edward Allen 2017-02-09

The leading guide to professional home construction, updated and expanded Fundamentals of Residential Construction is the definitive guide to single family and multifamily home building that details every step of the construction process. From siting and foundations to finishing details, this book provides a complete walk-through of professional home construction. Over 1,200 drawings and photographs animate the textbook, while interactive supplementary online resources help facilitate an understanding of the material. This fourth edition accommodates the latest developments in materials and methods, including new coverage of sustainable building and energy efficiency, multifamily construction, prefabricated building components, and CAD/BIM planning tools in residential construction. Authoritative coverage of wood light-frame construction, building systems, industrialized fabrication, insulating concrete forms, light-gauge steel and masonry construction, multi-family buildings, and more provides a solid foundation in residential construction methods, tools, and processes. Building a home requires a deeply integrated understanding of materials, structures, codes, and management procedures. Because the process involves such a broad array of considerations and challenges, construction professionals must regularly draw on a clear body of knowledge to keep a project running smoothly. This book helps you lay the groundwork of expertise required to successfully complete a residential project. • Learn the advantages and disadvantages of common materials and systems • Understand site preparation, foundations, and framing • Delve into the

details of roofing, finishing, and energy efficiency • Understand heating/cooling, plumbing, and electrical options • Examine the latest codes, costs, and management best practices Designing and constructing a home presents a unique project dynamic; people's homes are their sanctuaries, where they make the memories of a lifetime. They must be designed to be lived in, not simply "used." Lifetime costs play a major role in decision-making, materials must be carefully chosen and sourced, and spaces must be structured to be efficient yet enjoyable. Fundamentals of Residential Construction shows you how to bring it all together to turn a project into a family's cherished home.

Google SketchUp 7 For Dummies - Aidan Chopra 2009-03-09

Google SketchUp is the exciting free software package that makes 3D available to everybody. Whether you need to build 3D models for work, or you've just always wanted to explore 3D modeling, Google SketchUp was made for you. Still, it does take a bit of understanding to get started, so turn to Google SketchUp 7 For Dummies. In classic For Dummies tradition, Google SketchUp 7 For Dummies gets right to the point so you can start creating 3D models right away. You'll learn to: Set up SketchUp, learn about edges and faces, use inferences and guides, and build your first model Establish a basic end-to-end workflow for creating and sharing models Model non-boxy objects like terrain, characters, bottles, and spheres Add details like stairs, gutters, and eaves Spruce up your models with styles and shadows to add effects, make objects pop, and enhance realism Use the LayOut function to draw with vector tools, add text and callouts, and print your work Design buildings and objects, export your models to other design programs or to Google Earth, and explore 3D animation On the book's companion Web site, you'll also find a bonus chapter and videos demonstrating more about what you can do with Google SketchUp. Google SketchUp 7 For Dummies also shows you what SketchUp can and can't do, and offers tips for solving common problems. Add a new dimension to your work today!

BIM Handbook - Rafael Sacks 2018-07-03

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.

[SketchUp to LayOut](#) - Matt Donley 2014-01-31

The SketchUp to LayOut book is the essential guide for woodworkers, carpenters, architects, contractors, builders, and designers who already know the basics on how to use SketchUp, but are looking to create stunning presentations to visualize their ideas with their clients using LayOut. Learn the workflow for creating models specifically for LayOut Before you even begin modeling that first rectangle, you'll need to fully understand which type of model you should be building for LayOut. Don't make the mistake of creating twice the amount of work for yourself because you didn't properly organize your model ahead of time. I'll teach you how to save time and frustration by organizing your model so YOU are in control of how your model viewports look. The entire first half of the book is dedicated to preparing your model for LayOut. From organizational workflow, to scenes and styles. I share with you my 5 point method I use to visualize and prepare every scene I create for LayOut. Not only will you understand exactly what those five points are, you'll learn multiple ways to control them. Using these methods, you will gain complete control over

the look of your viewports in LayOut. You will master every aspect of a SketchUp scene and style, to enable you to create impressive presentations and drawings in the least amount of time possible. Is this too advanced for me? This book is designed for construction professionals who don't have any prior experience in LayOut at all. But it's also structured in a way that lets you look up specific tasks or methods without having to read the book cover to cover. I'll save you all the time and frustration that I went through when I first learned LayOut by quickly orienting you with the workspace, then jumping right in to creating your own titleblock, inserting SketchUp models, and adding dimensions. You should have some basic knowledge on how to use SketchUp. But if you're just starting out, you'll have complete access to my entire library of tutorials and videos for free on my website to bring you up to speed quickly. Every important aspect of LayOut is explained in the book, with step by step instructions for you to follow along. Learn exactly what you need to know and skip over all the little details you don't need to worry about. The book has been updated for 2014 so you'll even learn about the new Auto-Text tag feature, saving you a ton of time on those redundant text edits. You'll see REAL examples The sample projects in the book are real projects, not hypothetical meaningless shapes and boxes, so you can see exactly how to apply the concepts you learn in context with the real world. Plus, the SketchUp and LayOut files are included with each book download so you'll be able to follow along and discover for yourself how to organize a similar project of your own. The sample projects include a woodworking table project, a kitchen project, and a three story house project. At the same time, each step by step instruction can be read and followed independently from the project. So if you need to go back and reference a certain part of the book to learn how to do something specific, you'll be able to do that too. Advanced Techniques I've consulted with many of the best SketchUp gurus in the world! I've hung out with Nick Sonder at the SketchUp basecamp conference. I've interviewed Aidan Chopra, SketchUp evangelist and author of "Google SketchUp for Dummies", Eric Schimelpfenig from SketchThis.net, and Alexander Schreyer, author of "Architectural Design with SketchUp". I've also consulted with Mike Brightman, author of "The SketchUp Workflow for Architecture", Daniel Tal, author of "Rendering In SketchUp", and many other great SketchUp experts.

Mastering Autodesk Revit 2020 - Robert Yori 2019-11-14

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 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.

SketchUp for Builders - John G. Brock 2018-12-27

The only comprehensive SketchUp guide written for builders and contractors SketchUp is a 3D modeling application used in areas ranging from civil and mechanical engineering to motion picture and video game design. Three-dimensional modeling is of obvious value to the building industry—yet resources for transforming architectural designs into reality is surprisingly limited. SketchUp for Builders is the first comprehensive guide designed specifically for builders and contractors, providing step-by-step instructions on incorporating 3D modeling into all phases of the construction process. Author John Brock draws from his 30 years of experience as a custom home designer and builder to provide practical advice on how to understand what you are building before it is built. This valuable guide demonstrates how to eliminate cost

overruns, construction delays, and design flaws by integrating SketchUp modeling into your workflow. Emphasizing real-world practicality, this book covers all of the essential components of modeling a 3D construction project, from SketchUp fundamentals and object basics to importing construction drawings and increasing project efficiency with extensions and plugins. All phases of construction are clearly explained, including foundations, walls and floor systems, roof and mechanical systems, and exterior and interior finishes. Supplies a constructability process for efficient and cost-effective build projects Offers step-by-step guidance for creating construction documents, renderings, animations, virtual reality tours, and more Integrates SketchUp into all stages of the construction process Provides access to resources such as web tutorials, blogs, and the online SketchUp community Demonstrates how to generate construction documents with accompanying Layout software SketchUp for Builders: A Comprehensive Guide for Creating 3D Building Models Using SketchUp in an indispensable source of information for contractors and builders, architects, interior designers, landscape architects, construction professionals, and anyone seeking to create 3D models of the design and construction process.

BIM for Landscape - Landscape Institute 2016-05-05

BIM (Building Information Modelling) is transforming working practices across the built environment sector, as clients, professionals, contractors and manufacturers throughout the supply chain grasp the opportunities that BIM presents. The first book ever to focus on the implementation of BIM processes in landscape and external works, BIM for Landscape will help landscape professionals understand what BIM means for them. This book is intended to equip landscape practitioners and practices to meet the challenges and reap the rewards of working in a BIM environment - and to help professionals in related fields to understand how BIM processes can be brought into landscape projects. BIM offers significant benefits to the landscape profession, and heralds a new chapter in inter-disciplinary relationships. BIM for Landscape shows how BIM can enhance collaboration with other professionals and clients, streamline information processes, improve decision-making and deliver well-designed landscape projects that are right first time, on schedule and on budget. This book looks at the organisational, technological and professional practice implications of BIM adoption. It discusses in detail the standards, structures and information processes that form BIM Level 2-compliant workflows, highlighting the role of the landscape professional within the new ways of working that BIM entails. It also looks in depth at the digital tools used in BIM projects, emphasising the 'information' in Building Information Modelling, and the possibilities that data-rich models offer in landscape design, maintenance and management. BIM for Landscape will be an essential companion to the landscape professional at any stage of their BIM journey.

The Professional Practice of Architectural Working Drawings - Osamu (Art) A Wakita 2011-10-13

The practical, comprehensive handbook for creating effective architectural drawings In one beautifully illustrated volume, The Professional Practice of Architectural Working Drawings, Fourth Edition presents the complete range of skills, concepts, principles, and applications that are needed to create a full set of architectural working drawings. Chapters proceed logically through each stage of development, beginning with site and floor plans and progressing to building sections, elevations, and additional drawings. Inside, you'll find: Coverage of the latest BIM technologies Environmental and human design considerations Supplemental step-by-step instructions for complex chapters Five case studies, including two that are new to this edition Hundreds of computer-generated drawings and photographs, including BIM models, three-dimensional models, and full-size buildings shown in virtual space Checklists similar to those used in architectural offices Tips and strategies for complete development of construction documents, from schematic design to construction administration With an emphasis on sustainability throughout, this new edition of The Professional Practice of Architectural Working Drawings is an invaluable book for students in architecture, construction, engineering, interior design, and environmental design programs, as well as professionals in these fields.

The Complete SketchUp Companion for Interior Design - Andrew Brody 2018-02-22

The Complete SketchUp Companion for Interior Design focuses on the skills and requirements necessary to design and explore interiors—from composing views to managing the structure of the model for tracking objects in schedules and keys. Organized by skill type, the book mimics the layered nature of the software, where a general base skill set is enhanced and deepened through more advanced, focused explorations and

exercises. With concise explanations, and helpful boxed features ranging from basic to advanced topics, The Complete SketchUp Companion for Interior Design will be equally useful for beginning users and for those who already have knowledge of basic skills but find themselves in common "I-need-to-know" type situations in the design studio. The Complete SketchUp Companion for Interior Design STUDIO -Study smarter with self-quizzes featuring scored results and personalized study tips -Review concepts with flashcards of terms and definitions -Watch video tutorials to learn essential techniques -Download template files to practice your skills PLEASE NOTE: Purchasing or renting this ISBN does not include access to the STUDIO resources that accompany this text. To receive free access to the STUDIO content with new copies of this book, please refer to the book + STUDIO access card bundle ISBN 9781501322006.

Building Information Modeling - Karen M. Kensek 2014-04-16

This is a design guide for architects, engineers, and contractors concerning the principles and specific applications of building information modeling (BIM). BIM has the potential to revolutionize the building industry, and yet not all architects and construction professionals fully understand what the benefits of BIM are or even the fundamental concepts behind it. As part of the PocketArchitecture Series it includes two parts: fundamentals and applications, which provide a comprehensive overview of all the necessary and essential issues. It also includes case studies from a range of project sizes that illustrate the key concepts clearly and use a wide range of visual aids. Building Information Modeling addresses the key role that BIM is playing in shaping the software tools and office processes in the architecture, engineering, and construction professions. Primarily aimed at professionals, it is also useful for faculty who wish to incorporate this information into their courses on digital design, BIM, and professional practice. As a compact summary of key ideas it is ideal for anyone implementing BIM.

The SketchUp Workflow for Architecture - Michael Brightman 2018-07-24

A guide for leveraging SketchUp for any project size, type, or style. New construction or renovation. The revised and updated second edition of The SketchUp Workflow for Architecture offers guidelines for taking SketchUp to the next level in order to incorporate it into every phase of the architectural design process. The text walks through each step of the SketchUp process from the early stages of schematic design and model organization for both renovation and new construction projects to final documentation and shows how to maximize the LayOut toolset for drafting and presentations. Written by a noted expert in the field, the text is filled with tips and techniques to access the power of SketchUp and its related suite of tools. The book presents a flexible workflow method that helps to make common design tasks easier and gives users the information needed to incorporate varying degrees of SketchUp into their design process. Filled with best practices for organizing projects and drafting schematics, this resource also includes suggestions for working with LayOut, an underused but valuable component of SketchUp Pro. In addition, tutorial videos compliment the text and clearly demonstrate more advanced methods. This important text: Presents intermediate and advanced techniques for architects who want to use SketchUp in all stages of the design process Includes in-depth explanations on using the LayOut tool set that contains example plans, details, sections, presentations, and other information Updates the first edition to reflect the changes to SketchUp 2018 and the core functionalities, menus, tools, inferences, arc tools, reporting, and much more Written by a SketchUp authorized trainer who has an active online platform and extensive connections within the SketchUp community Contains accompanying tutorial videos that demonstrate some of the more advanced SketchUp tips and tricks Written for professional architects, as well as professionals in interior design and landscape architecture, The SketchUp Workflow for Architecture offers a revised and updated resource for using SketchUp in all aspects of the architectural design process.

SketchUp for Interior Design - Lydia Sloan Cline 2023-05-16

Practical guide addressing the specific needs of interior designers and explaining the latest features of the professional, subscription-based version of SketchUp. SketchUp for Interior Design, Second Edition shows interior designers, interior architects, and students how to design and model with this software. How to create 3D models and space plans, furniture, cabinetry, accessories, experiment with colors and materials, import manufacturers' models, and make client presentations and animated walk-throughs are all covered in a step-by-step tutorial manner. This edition also includes expanded information on the LayOut feature, the Component and Extension Warehouses, and updates on the latest tools and functions. Each chapter is

packed with screenshots, making the instructions easy to follow. Files on a companion site allow readers to play along with the book's examples. In SketchUp for Interior Design, readers will: Choose a template and navigate the interface. Use fundamental tools such as push/pull, circle, rectangle, eraser, pencil, move, and modifiers to make those tools perform different functions. Import paper sketch and AutoCAD plans, and trace over them for quick modeling. Download and install toolbars from the Extension Warehouse and other sites. Create scaled, 2D graphics from the model. Make tables of design components for costs and contractors. With comprehensive, accessible coverage of SketchUp and its practical application, SketchUp for Interior Design is an essential reference for professionals, hobbyists, students, and anyone who wants to create spaces and communicate their ideas.

Real World Google SketchUp 7 - Mike Tadros 2010

A guide to using Google SketchUp for creating three-dimensional models, covers such topics as creating custom templates, importing CAD files, creating components, mastering scenes, and exporting graphics.

Wright and New York - Anthony Alofsin 2020-11-17

A dazzling dual portrait of Frank Lloyd Wright and early twentieth-century New York, revealing the city's role in establishing the career of America's most famous architect Frank Lloyd Wright (1867-1959) took his first major trip to New York in 1909, fleeing a failed marriage and artistic stagnation. He returned a decade later, his personal life and architectural career again in crisis. Booming 1920s New York served as a refuge, but it also challenged him and resurrected his career. The city connected Wright with important clients and commissions that would harness his creative energy and define his role in modern architecture, even as the stock market crash took its toll on his benefactors. Wright denounced New York as an "unlivable prison" even as he reveled in its culture. The city became an urban foil for Wright's work in the desert and in the "organic architecture" he promoted as an alternative to American Art Deco and the International Style. New York became a major protagonist at the end of Wright's life, as he spent his final years at the Plaza Hotel working on the Guggenheim Museum, the building that would cement his legacy. Anthony Alofsin has broken new ground by mining the recently opened Wright archives held by Columbia University and the Museum of Modern Art. His foundational research provides a crucial and innovative understanding of Wright's life, his career, and the conditions that enabled his success. The result is at once a stunning biography and a glittering portrait of early twentieth-century Manhattan.

Architectural Design with SketchUp - Alexander C. Schreyer 2015-10-26

Go beyond the basics: making SketchUp work for you Architectural Design with SketchUp, Second Edition, is the leading guide to this incredibly useful tool for architects, interior designers, construction professionals, and makers. With easy to follow tutorials that first brush up on the basics of the program and then cover many advanced processes, this resource offers both informative text and full-color illustrations to clearly convey the techniques and features you need to excel. The updated second edition has a new chapter that explains how to make things with SketchUp, and covers 3D printing, design to fabrication, CNC milling, and laser cutting. Other chapters also now cover Building Information Modeling (BIM) and 3D web content generation. Additionally, the revised text offers insight into the latest products and plugin extensions, navigation methods, import/export options, and 3D model creation features to ensure you have an up to date understanding of how to make SketchUp help you meet your project goals. A leading 3D modeling application, SketchUp features documentation capabilities through photorealistic renderings and construction drawings. Because of its ease of use and ability to be enhanced with many plugin extensions for project-specific applications, SketchUp is considered the tool of choice for professionals in the architecture, interior design, construction, and fabrication fields. Access thoroughly updated information in an easy to understand writing style Increase your efficiency and accuracy when using SketchUp and refresh and supplement your understanding of SketchUp's basics Explore component-based modeling for assembly, scheduling, collaborative design, and modeling with a BIM approach Find the right plugin extensions and understand how to best work with them See how easy it is to generate presentation-ready renderings from your 3D models Learn how you can use 3D printing, CNC milling, and laser cutting to make things with SketchUp Use cookbook-style Ruby coding to create amazing 3D objects Supplement your knowledge with video tutorials, sample files, and Ruby scripts via a robust companion website Architectural Design with SketchUp, Second Edition, is an integral resource for both students and professionals working in the

architecture, interior design, construction, and fabrication industries.

Conceptualize, Create, Communicate - Bonnie Roskes 2013-06-28

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. Until now, interior design education has focused on overly complex software programs such as AutoCAD—the equivalent of hitting a fly with a sledgehammer. This breakthrough text helps create and present designs using free, easy-to-learn software: Google SketchUp. Created specifically for college-level courses in Interior Design, CONCEPTUALIZE, CREATE, COMMUNICATE: DESIGNING LIVING SPACES WITH GOOGLE SKETCHUP covers all of the ways SketchUp can be used for interior design and decorating. Step-by-step, illustrated projects walk readers through the design process, including modeling an empty room, finding or creating furniture and accessories, using color and materials, and presenting designs to clients.

The Complete Guide to Sketchup Pro: All You Need to Know for Mastering Sketchup Pro, Using the Power of Extension and Layout - Yael Kedem 2021-05-11

A modern, comprehensive, and practical guide to help you master SketchUp. Whether you are looking to learn the basics or hone your skills and get winning tips, The Complete Guide to SketchUp Pro will give you the tools you need. This guide encompasses the entire software, demonstrates the complete set of commands, and is accompanied by examples, exercises, and screenshots. It is adapted to all versions of SketchUp and is suitable for professionals of the extended design community. In this step-by-step guide you will learn: how to incorporate advanced commands how to create an impressive presentation how to export data, while emphasizing the correct and most efficient ways of working in SketchUp Yael Kedem, interior designer, founder, and owner of SketchUp Center in Israel has a rich experience of mentoring thousands of people. In her book, she shares her knowledge to help you make your wild design ideas a simple reality.

Fundamentals of Residential Construction - Alexander C. Schreyer 2011-03-10

The leading guide to professional home construction—now updated and revised! Fundamentals of Residential Construction, Third Edition features the most up-to-date explanations of today's residential construction systems. From foundation to roof and exterior finishes to interior details, this new edition thoroughly addresses the latest developments in materials and methods of house construction, including energy efficiency, framing, and roofing. Abundantly illustrated with more than 1,250 drawings and photographs, including new photorealistic illustrations that bring the text to life, this Third Edition provides authoritative coverage on wood light-frame construction, industrialized systems of construction, insulating concrete forms, light-gauge steel frame, panelized construction, and a new chapter on multifamily construction. Topics covered include: Plumbing Building codes Heating and cooling Financing Wiring Roofing Thermal insulation Environmental concerns Foundations Finish sitework Rough sitework Wood and light-gauge steel framing Engineered materials Exterior and interior finishes Organized in a logical, easy-to-follow format, Fundamentals of Residential Construction, Third Edition is the one-stop source for building professionals to gain a working knowledge of codes, management procedures, material, and all home building concerns.

BIM in the Construction Industry - Hee Sung Cha 2021-01-15

This book contains 19 peer-reviewed papers on the subject of BIM in the construction industry. These articles cover recent advances in the development of BIM technologies and applications in the field of architecture, engineering, and construction (AEC) industry.

SketchUp for Site Design - Daniel Tal 2016-01-27

The site designer's guide to SketchUp's powerful modeling capabilities SketchUp for Site Design is the definitive guide to SketchUp for landscape architects and other site design professionals. Step-by-step tutorials walk you through basic to advanced processes, with expert guidance toward best practices, customization, organization, and presentation. This new second edition has been revised to align with the latest software updates, with detailed instruction on using the newest terrain modeling tools and the newly available extensions and plug-ins. All graphics have been updated to reflect the current SketchUp interface and menus, and the third part of the book includes all-new content featuring the use of new grade and terrain extensions. Developed around the needs of intermediate professional users and their workflows, this book provides practical all-around coaching on using SketchUp specifically for modeling site plans.

SketchUp was designed for usability, with the needs of the architect, industrial designer, and engineers at center stage. This book shows you how the software's powerful terrain and grade functions make it an ideal tool for site designers, and how to seamlessly integrate it into your workflow for more efficient design and comprehensive planning. Master the SketchUp basics, navigation, components, and scripts Turn 2D sketches into 3D models with volume, color, and material Create detailed site plans, custom furnishings, gradings, and architecture Learn sandbox tools, organization strategies, and model presentation tips SketchUp has undergone major changes since the publication of this guide's first edition, with its sale to Trimble Navigation bringing about a number of revisions and the availability of more immediately useful features. SketchUp for Site Design shows you how to harness the power of this newly expanded feature set to smooth and optimize the site design workflow.

Sketchup Success for Woodworkers: Four Simple Rules to Create 3D Drawings Quickly and Accurately - David Heim 2020-10-13

With SketchUp Success for Woodworkers, any woodworker can download SketchUp and be drawing helpful, detailed woodworking plans like a pro in no time at all. An affordable, simple, and powerful 3-D design program, SketchUp can be used to create models and plans for anything a creative mind can imagine, especially simple to elaborate woodworking projects and plans. After many years of using SketchUp, David Heim, an expert woodworker and writer, has developed a simple set of rules for success that will guide you in mastering this potent program. With SketchUp Success for Woodworkers, any woodworker can download SketchUp at breakfast and be drawing detailed and useful plans by dinnertime. Easy-to-understand instructions, screen shots, and step-by-step projects make it easy to unleash the valuable benefits of SketchUp to create the models and plans that will transform your woodworking design process and elevate your woodworking output.

Construction Documents Using SketchUp Pro 2020: A Short Project-based Course to Increase Your Effectiveness at Using SketchUp and Give You a Truly Pro - Paul James Lee 2020-01-15

Presented here is a detailed step-by-step guide to building a house model from scratch and transforming it into finished construction documents. Our book contains tips and tricks about how to go from a sketch to fully finished Plans, Sections, Elevations and Details. Each page is painstakingly designed to make it extremely clear how every step works. This course was formulated from years of experience not only using SketchUp in practise but teaching professionals and students from many different backgrounds. Written by an experienced architect who has used SketchUp to design and project many types of jobs from a house extension to commercial office buildings, it has been shaped by extensive practise of design and building. Some of the best professional workflows you'll find anywhere are contained within the course material. Learning the tools is fundamentally important, but more than that we need to understand how tools and settings work together in the most effective way. Structured around a building project which was designed and project managed by the author, the course details all the steps required to construct walls, windows, doors, roof in a professional manner using correct naming procedures. Elements are organised according to best practise. Groups and Components must be correctly located to be truly effective, and a proper method for structuring elements is clearly outlined in a unique, comprehensive graphic. Each concept is clearly documented including Groups, Section Cuts, Styles, Scenes (or Views), Perspectives vs Orthogonal Views. Tools are each used in a challenging context so that the reader gets an in-depth understanding of how each works in practise. Pages are set out using ultra-clear graphics which link each step with a visual reference. Our model is built up in a way that follows the real-life construction process: Walls are laid out at the same time that floor slabs are formed; Windows are put in place inside the wall structure; Internal Walls are constructed and doors are inserted; Finally the roof is created complete with rooflights. The procedure for creating and locating Component Libraries is demonstrated. The model then undergoes a process of Section Cut placement. Scenes (Views) are set up using the Section Cuts; These constitute our Plans, Sections and Elevations. Textures are added to elements. Materials selection and creation is explained in detail. Following on from this is the creation of a construction detail based on the main model. Using a bespoke SketchUp model environment, the formation of a comprehensive 3D detail is illustrated complete with Scenes. Once the model and its views have been prepared, it is then ready to be placed into LayOut, SketchUp Pro's graphics interface. Each Scene is inserted into LayOut, sized and scaled. Notes and

graphics are applied using text, callouts, lines. There is a unique section on creating a scaled 2D drawing in LayOut, using the program's vector graphics in a way that is as clear as any 2D CAD program. The Scrapbook Menu is a means of swiftly importing graphics that are both pre-loaded but can also be quickly added to. Procedures for creating our own graphics library is explained. Recommended sizes for text, line weights and dimensions are illustrated. Each menu in LayOut is explained in detail. There are five "Killer Keystrokes" included in the book. These are shortcuts that have a massive impact on modelling time and convenience. Creation of shortcut keys is also explained. In the introduction section there are explanations of SketchUp's BIM capabilities. Further details are linked on SketchUp.Expert website, and links to BIM use-cases are provided. There is also a critique of 2D CAD and why SketchUp Pro is better to use for traditional CAD work. SketchUp has become the new "de-facto norm" for architecture and design professionals. There is simply no better way to illustrate design while translating into documentation.

SketchUp For Dummies - Aidan Chopra 2017-03-02

Design almost anything in 3D with SketchUp Whether you've dabbled in drawing in 3D or are interested in learning the basics of design, SketchUp For Dummies makes it fast and easy to learn the ropes of a powerful, user-friendly tool to bring your design ideas to life. From creating a basic 3D model to showing off your work via 3D print or animation, this all-access guide pulls back the curtain on using SketchUp to do anything from redesigning your house to mocking up the next great invention. With an emphasis on usability, SketchUp has found very wide success as a tool even non-designers can use to make basic drawings. And now, thanks to the insight and expert tips from former SketchUp product director Aidan Chopra and co-author Rebecca Huehls, this easy-to-follow guide makes it more accessible than ever! Create buildings and components Alter the appearance of your model Tour your designs via SketchUp Get quick tips on troubleshooting If you're a designer with sketchy computer modeling skills, SketchUp For Dummies is the trusted reference you'll turn to again and again.

Architectural Design with SketchUp - Alexander C. Schreyer 2012-11-20

"... the book is wonderfully illustrated with full color and descriptive images that complement each tutorial or exercise. Alex's teaching background really rings through as every item is nicely structured and very informative. Overall Alex's book is a winner. Well structured, illustrated and most of all easy to read and understand. While the overall theme is based in architecture, the techniques can be applied to any discipline and the wide range of topics covered are excellently delivered." -Richard O'Brien, CatchUp Editor, the official SketchUp newsletter The one-stop guide to SketchUp for architects, designers, and builders SketchUp is the tool of choice for architects, interior designers, and construction professionals. Though the basics are simple to understand, getting the most out of it requires deeper instruction and guidance. Architectural Design with Google SketchUp uses easy-to-understand tutorials to describe both common and advanced process, illustrated throughout with full-color renderings. Handy sidebars throughout the book cover fundamentals and background information End-of-chapter exercises help readers master new skills and techniques A robust companion website includes helpful videos, sample files, and plug-ins

Kids As Architects (for the PC) - Bonnie Roskes 2008

Google SketchUp Workshop - Laurent Brixius 2012-10-12

Discover the secrets of the Google SketchUp with the 16 real-world professional-level projects including parks, structures, concept art, and illustration. Google SketchUp Workshop includes all the wide variety of projects that SketchUp can be used for-architectural visualization, landscape design, video game and film conception, and more. SketchUp masters in every field will get you up to speed in this agile and intuitive software and then show you the real uses with through projects in architecture, engineering, and design.

3D Printing with SketchUp - Marcus Ritland 2014-05-21

This book is a practical tutorial, packed with real-world case studies to help you design models that print right the first time. If you are familiar with SketchUp and want to print the models you've designed, then this book is ideal for you. You don't need any experience in 3D printing; however, SketchUp beginners will

require a companion book or video training series to teach them the basic SketchUp skills.

SketchUp to LayOut - Matt Donley 2021-05-26

Create beautiful 3D models and presentations with SketchUp Pro and LayOut. SketchUp to LayOut, 2nd edition is a complete beginner's guide for learning SketchUp and LayOut. Effortlessly turn your ideas into 3D models using SketchUp, then document them in SketchUp's companion drawing program, LayOut. Even if you've never designed in 3D before, this book will guide you step by step. In addition to developing a complete understanding of SketchUp and LayOut basics, you'll learn advanced topics that will build upon your new skills: Learn the five steps to creating scenes in SketchUp that will give you full control over the look of your SketchUp models in LayOut. Master the most important modeling concepts, such as model organization, object visibility, tag theory, and level of detail, to become more efficient and enable faster editing of your projects. Discover several advanced techniques to develop custom workflows that work best for you and your preferences. The only book you'll need to master SketchUp & LayOut!

Portfolio Design - Harold Linton 2003

The bible of portfolio design and production is now in its third edition, revised and expanded to include essential information on the digital and multimedia direction of portfolios today. Whether you work in architecture, urban planning, landscape or interior design, a finely tailored portfolio is the most important element to include in your application for graduate school, a design grant or competition, or to bring to a job interview. In addition to showing you how to assemble a portfolio that will display your talents and qualifications to the best advantage, the third edition of Portfolio Design adds a chapter on digital strategies, discussing all the elements necessary to bring your work together in a digital format. Also new to this edition is commentary and analysis of selected student portfolios by three experienced professionals who offer unique insights to help you develop your own portfolio. From formats, bindings, and cases to reproduction techniques, content, style, sequencing, multimedia, and the latest in promoting yourself on the Internet, Portfolio Design addresses every aspect of portfolio planning and production. Three-hundred samples nearly half of them new to this edition drawn from a wide array of current student and professional portfolios, both print and electronic, illustrate many and varied graphic design alternatives to demonstrate what will capture the reviewer's attention and secure you an offer. Portfolio pointers from industry professionals and educators complement the practical advice given by Harold Linton, who has taught portfolio design to generations of students.

SketchUp For Dummies - Bill Fane 2020-09-01

The first step in making your ideas a reality SketchUp offers a vast array of tools that help you get your building, woodworking, and design plans out of your head and into a real model. Even if you've never dabbled in the software, SketchUp All-in-One For Dummies makes it easy to get started as quickly as the ideas pop into your head! Providing real-world insight from top SketchUp insiders, these six-books-in-one teach you how to tackle the basics of the program and apply those skills to real-world projects. You'll discover the basics of modeling as they apply to either free or paid versions of SketchUp before diving into creating models to use for making objects, constructing buildings, or redesigning interiors. Navigate the SketchUp product mix Get familiar with the basics of modeling View and share your models Make your architecture, interior design, and woodworking dreams a reality You have tons of great ideas—and now you can harness this powerful software to bring them to life.

The Design-Build Studio - Tolya Stonorov 2017-09-20

The Design-Build Studio examines sixteen international community driven design-build case studies through process and product, with preceding chapters on community involvement, digital and handcraft methodologies and a graphic Time Map. Together these projects serve as a field guide to the current trends in academic design-build studios, a window into the different processes and methodologies being taught and realized today. Design-build supports the idea that building, making and designing are intrinsic to each other: knowledge of one strengthens and informs the expression of the other. Hands-on learning through the act of building what you design translates theories and ideas into real world experience. The work chronicled in this book reveals how this type of applied knowledge grounds us in the physicality of the world in which we live.