

# Revit IFC Manual 2.0



## INTRODUCTION

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### Introduction

BIM (Building Information Modeling) is a model-based process that allows architects, engineers, clients, and contractors, to procure, design, build and manage buildings and infrastructure. The core of BIM is a digital representation of physical and functional characteristics of an asset. The most important Autodesk tools for the creation and modification of BIM data are Autodesk Revit for buildings and Autodesk Civil 3D for large scale infrastructure.

Provided that all of those involved in the design process are working with the same software tools, collaboration is hassle free and data exchange is straight forward. Collaboration tools for examining data quality like Revit's interoperability tools are integrated in the authoring software, reports may be generated at any time in user defined quality. This process is called **native BIM**.

In larger projects and complex team structures, native BIM can be a challenge, due to a variety of different authoring software tools from different vendors used for the individual design tasks. In order to work on an integrated collaboration across software platforms, Autodesk convened 12 industry leading companies to found the Industry Alliance for Interoperability (IAI) in 1996.<sup>1</sup> The main concept developed by this consortium

was IFC (Industry Foundation Classes). The IAI was renamed to buildingSMART in 2005.

Today, Autodesk is member of the buildingSMART Strategic Advisory Council (SAC), "designed to appeal to those leading multinational enterprises who believe that full implementation and adoption of open BIM is strategically important to the built environment sector" and who forward IFC as a common data standard for interoperability.<sup>2</sup>

In addition, Autodesk joined the Open Design Alliance (ODA) in 2009 to fast track improvements to Interoperability.<sup>3</sup>

IFC is the basis for exchanging data between different applications through **openBIM** workflows for building design, construction, procurement, maintenance, and operation, within project teams and across software applications. According to buildingSMART, IFC "is a standardized, digital description of the built environment, including buildings and civil infrastructure. It is an open, international standard, meant to be vendor-neutral, or agnostic, and usable across a wide range of hardware devices, software platforms, and interfaces for many different use cases."<sup>4</sup>

Since 2005 IFC - version 2x3 - was adopted as an ISO (International Organization for Standardization) standard (ISO 15926:2005). From ISO 15926: 2007 the standard was adopted by CEN (Comité Européen de Normalisation / European Committee for Standardization) and since then IFC has become a European standard, too. As collaboration is the core intent of IFC, buildingSMART developed a certification program for software-products.<sup>5</sup>

Due to the complexity of BIM projects, varying requirements for project design delivery, and differing capabilities between software platforms and vendors, it is essential for AEC practitioners and project teams to understand the basic principles of openBIM workflows, which this manual will discuss. Central to this manual are on the IFC capabilities of **Autodesk Revit**. We also include a chapter on IFC for AutoCAD products, and look to existing and emerging openBIM standards and capabilities for infrastructure projects.

For a current and updated list of useful links included in this document, please visit the [Autodesk IFC resources](#).

1) <https://en.wikipedia.org/wiki/buildingSMART>

# Revit Instruction Manual 2015

**James Vandezande, Eddy Krygiel, Phil  
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## **Revit Instruction Manual 2015:**

*Mastering Autodesk Revit MEP 2015* Don Bokmiller, Simon Whitbread, Daniel Morrison, 2014-05-30 The definitive guide to Autodesk Revit MEP The expert author team for this Autodesk Official Press book has employed their years of experience to develop this exhaustive reference and tutorial which is perfectly paced to cover all the core concepts and functionality of Revit MEP including Navigating the interface Project setup and templates Worksharing Mechanical concerns such as building loads and ductwork Electrical concerns such as lighting and communications outlets Plumbing concerns such as fixtures and water systems This revision covers all of Revit MEP's new features and includes more advanced electrical and plumbing information In addition the book features real world sidebars and hands on tutorials that reinforce the detailed discussions along with downloadable before and after tutorial files to help you complete the hands on projects This Autodesk Official Press book is the perfect resource for becoming a Revit MEP expert

## **Teaching Innovation in Architecture and Building Engineering**

David Bienvenido-Huertas, María Luisa de la Hoz-Torres, Antonio Jesús Aguilar Aguilera, 2024-06-19 This book presents contributions on teaching innovation in university architecture and building engineering studies The authors explain how the construction sector demands that future architects and building engineers have the knowledge and skills that allow them to meet the decarbonization objectives established by international organizations and that this causes the level of knowledge to be higher The contributors further discuss new technologies and the internationalization of studies presenting new challenges university studies must face This heterogeneity is represented in the chapters that make up this book developed by researchers from different countries The book is divided into three blocks i Active learning methodologies ii Innovative methodologies applied to learning process and iii Traditional vs Advanced Techniques The chapters of the book represent an advance in the current knowledge of teaching innovation techniques in university architecture and building engineering studies

Revit Architecture 2016 for Designers Douglas R. Seidler, 2015-08-11 Building information modeling BIM is the new AutoCAD for architects and interior designers and Revit Architecture is the leading software package in the BIM marketplace Revit Architecture 2016 for Designers is written specifically for architects and interior designers as they transition from CAD to BIM Beginning with the building blocks of BIM modeling walls windows and doors the text progresses through dynamically generated 2 dimensional and 3 dimensional views to advanced features such as photorealistic rendering custom title blocks and exporting drawings to AutoCAD and SketchUp This new edition is updated to include coverage on the latest changes in Revit Architecture 2016 Instructions are fully illustrated creating a smooth transition to the BIM environment for all designers Clear concise and above all visual this is the essential Revit guide written specifically for interior designers and architects

**Landscape Architecture Documentation Standards** Design Workshop, 2015-10-26 SUPERB EXECUTION RELIES UPON RIGOROUS PROJECT DOCUMENTATION A project will only be built as well as it is documented This publication focuses on the key documentation needs of the landscape architectural design and construction

documentation process That includes both design documentation and construction documentation as well as all that which occurs in the transition from one phase to the other Documentation requirements include those components necessary to explore and define design intent logic physical proposals and ultimately the specific components included within construction and bid documents Discover how proper documentation facilitates every stage of the design process from pre planning to construction and leads to a highly resolved built outcome Understand the principles behind these documentation practices Implement best practices specific to each documentation phase and drawing from title block and cover sheet design to soil plans and plant protection Organize keynoting systems cross referencing and interdisciplinary coordination amongst multiple consultants and vendors Study sample project documents from a leading landscape architecture firm to better understand the elements and benefits of complete and well coordinated project documentation These standards have been time tested by over 150 designers at the industry leading landscape architecture firm Design Workshop reflecting a range of project types including parks streetscapes urban spaces and over structure construction This guide shares the methods behind the success to facilitate exceptional built outcomes through principled documentation practices

**Landscape Architecture and Digital Technologies** Jillian Walliss, Heike Rahmann, 2016-02-12 Landscape Architecture and Digital Technologies explores how digital technologies are reshaping design and making in landscape architecture While the potentials of digital technologies are well documented within landscape planning and visualisation their application within design practice is far less understood This book highlights the role of the digital model in encouraging a new design logic that moves from the privileging of the visual to a focus on processes of formation bridging the interface of the conceptual and material the virtual and the physical Drawing on interviews and projects from a range of international designers including Sn hetta Arup Gustafson Porter ASPECT Studios Grant Associates Catherine Mosbach Philippe Rahm PARKKIM LAAC and PEG office of landscape architecture among others the authors explore the influence of parametric modelling scripting real time data simulation prototyping fabrication and Building Information Modelling on the design and construction of contemporary landscapes This engagement with practice is expanded through critical reflection from academics involved in landscape architecture programs around the world that are reshaping their research and pedagogy to reflect an expanded digital realm Crossing critical theory technology and contemporary design the book constructs a picture of an emerging twenty first century practice of landscape architecture practice premised on complexity and performance It also highlights the disciplinary demands and challenges in engaging with a rapidly evolving digital context within practice and education The book is of immense value to professionals and researchers and is a key publication for digital landscape courses at all levels

*Building Information Modelling (BIM) in Design, Construction and Operations* L. Mahdjoubi, C.A. Brebbia, R. Laing, 2015-09-09 Building Information Modelling BIM in Design Construction and Operations contains the proceedings of the first in a planned series of conferences dealing with design coordination construction maintenance operation and

decommissioning The book gives details of how BIM tools and techniques have fundamentally altered the manner in which modern construction teams operate the processes through which designs are evolved and the relationships between conceptual detail construction and life cycle stages The papers contributed by experts from industry practice and academia debate key topics develop innovative solutions and predict future trends The interdisciplinary nature of the contents and the collaborative practices discussed so important within the built environment will appeal to those engaged in design surveying visualisation infrastructure real estate construction law insurance and facilities management Topics covered include BIM in design coordination BIM in construction operations BIM in building operation and maintenance BIM and sustainability BIM and collaborative working and practices BIM health and safety and BIM facilities management integration among others

Computer-Aided Architectural Design: The Next City – New Technologies and the Future of the Built Environment

Gabriela Celani, David Moreno Sperling, Juarez Moara Santos Franco, 2015-06-15 This book constitutes the refereed proceedings of the 16th International Conference on Computer Aided Architectural Design Futures CAAD Futures 2015 held in S o Paulo Brazil in July 2015 The 33 revised full papers presented were carefully reviewed and selected from 200 submissions The papers are organized in topical sections on modeling analyzing and simulating the city sustainability and performance of the built space automated and parametric design building information modelling BIM fabrication and materiality shape studies

A Proposal for the Expanded Fruition of Cultural Heritage Sites Carla Ferreyra, 2025-05-06 This book presents a comprehensive methodology integrating analysis digitization and the preservation of cultural heritage It investigates three potential UNESCO World Heritage Sites in Italy Germany and South Africa and employs a blend of documentary research and advanced digital surveying and data processing techniques The volume shows how these efforts yielded actionable strategies to meet society s evolving demands for surveying recovery and conservation The book documents the work behind the overarching objective which was to digitize analyze categorize and store all collected data within a BIM framework with the aim of streamlining collaboration enhancing management efficiency and optimizing processes It demonstrates the utilization of digital tools in not only amplifying traditional scientific technological approaches to heritage protection but also its role in reshaping the perception comprehension and communication of heritage This fosters the development of more sustainable conservation strategies

**Informed Urban Environments** Ata

Chokhachian, Michael U. Hensel, Katia Perini, 2022-05-09 This book collects ground breaking works on the actual and potential impact of big data and data integrated design for resilient urban environments including human and ecology centred perspectives Comprehending and designing for urban social demographic and environmental change is a complex task Big data data structuring data analysis i e AI and ML and data integrated design can play a significant role in advancing approaches to this task The themes presented in this book include urban adaptation urban morphology urban mobility urban ecosystems urban climate urban ecology and agriculture Given the compound nature of complex sustainability problems most

chapters address the correlation between several of these themes The book addresses practitioners researchers and graduate students concerned with the rapidly increasing role of data in developing urban environments **Mastering Autodesk Revit MEP 2016** Simon Whitbread,2015-09-01 Get up and running on Autodesk Revit MEP 2016 with this detailed hands on guide Mastering Autodesk Revit MEP 2016 provides perfectly paced coverage of all core concepts and functionality with tips tricks and hands on exercises that help you optimize productivity With a focus on real world uses and workflows this detailed reference explains Revit MEP tools and functionality in the context of professional design and provides the practical insight that can only come from years of experience Coverage includes project setup work sharing building loads ductwork electrical and plumbing and much more with clear explanation every step of the way The companion website features downloadable tutorials that reinforce the material presented allowing you to jump in at any point and compare your work to the pros This is your guide to master the capabilities of this essential productivity enhancing tool Generate schedules that show quantities materials design dependencies and more Evaluate building loads and design logical air water and fire protection systems Create comprehensive electrical and plumbing plans tailored to the project Model your design with custom parameters symbols fixtures devices and more If you re ready to get on board this emerging design collaboration and documentation paradigm Mastering Autodesk Revit MEP 2016 is the one stop resource you need

Speech Mapping and Probe Microphone Measurements H. Gustav Mueller,Todd A. Ricketts,Ruth Bentler,2017-04-05 Written in an engaging easy to read format by three of the industry s leading experts Speech Mapping and Probe Microphone Measurements is an essential clinical companion for all practitioners fitting and dispensing hearing aids The key to successful hearing aid fittings is the patient specific programming of gain and output As outlined in all Best Practices Guidelines the cornerstone of this process is the real ear verification Although speech mapping and probe microphone measures have been used clinically for decades new techniques and procedures continue to emerge This is the first handbook to be published in 25 years that is dedicated to this critical clinical measure Starting with an emphasis on evidenced based practice and the need to develop a well researched gold standard Speech Mapping and Probe Microphone Measurements takes you through the process of conducting valid and reliable speech mapping testing Following a review of the basics of signal types presentation levels and patient and probe positioning the chapters flow to the patient centered real ear verification process In addition to extensive step by step guidelines regarding the routine testing and adjustment of gain and output protocols for the evaluation of special features and fittings also are outlined As a bonus the authors provide a review of how speech mapping findings can be used with other measures that are part of the overall hearing aid fitting protocol

**International Scientific Conference Energy Management of Municipal Transportation Facilities and Transport EMMFT 2017** Vera Murgul,Zdenka Popovic,2017-12-19 This book includes the proceedings of the 19th International Scientific Conference Energy Management of Municipal Transportation Facilities and Transport EMMFT 2017 which was

held in Khabarovsk Russia on 10-13 April 2017. The book presents the research findings of scientists working at universities in the Far Eastern Siberian and Ural Federal Districts of Russia and of Serbia which are unique regions notable for sustainably operating complex transport infrastructures in severe climatic and geographic environments. It also offers practical insights into transportation operation under such conditions. The book discusses the experiences of colleagues from Slovenia, Ukraine and Latvia in the development of transport infrastructure and construction of transport facilities and features and includes the results of a wide range of studies such as managing multimodal transportation, improving the efficiency of locomotives, electric locomotives, traction substations, electrical substations, relay protection and automation devices and power factor correction units. It addresses topics like renewable energy sources, problems of the mathematical and simulation modelling of electromagnetic processes of electrical power objects and systems, aspects of cost reduction for fuel and power resources, theoretical aspects of energy management, development of transport infrastructure, modern organizational and technological solutions in construction, new approaches in the field of management analysis and monitoring in transport sector. Comprising 142 high quality articles covering a wide range of topics, these proceedings are of interest to anyone engaged in transport engineering, electric power systems, energy management, construction and operation of transport infrastructure, buildings and facilities.

**Mobile Terrestrial Laser Scanning Workflow Development, Technical Support and Evaluation** Kin S. Yen, Bahram Ravani, Ty Aaron Lasky, 2014     Autodesk® Revit Basic Training Manual Brian W. Clayton, 2018     *Autodesk Revit Architecture 2015 Essentials* Ryan Duell, Tobias Hathorn, Tessa Reist Hathorn, 2014-09-25. Your step by step guide to learning Autodesk Revit Architecture. This detailed introduction to Revit Architecture features straightforward explanations and real world hands on tutorials to teach new users the software's core features and functions. Presented in the context of real world workflows and using real world projects, each chapter contains a discussion of the why and how that is reinforced with a step by step tutorial so you'll gain practical and applicable experience with the core features of Revit Architecture. The new pedagogical approach emphasizes learning skills to help you prepare for the Revit certification exams. Learn at your pace with step by step exercises illustrated with full color screenshots and downloadable Revit tutorial files. Work with floors, ceilings, walls and curtain walls. Use modeling and massing to explore design ideas. Use the Family Editor to create and manage families. Understand effective worksharing, BIM workflows and file management. Use rendering and visualization techniques to make your design come alive. Prepare for Revit certification exams. With Autodesk Revit Architecture Essentials you are only a step away from better, faster building design.     *Mastering Autodesk Revit Architecture 2015* Eddy Krygiel, James Vandezande, 2014-05-19. 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 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

Mastering Autodesk Revit Architecture 2015 James Vandezande,Eddy Krygiel,Phil Read,2014      **Autodesk Revit**

**Architecture 2015: No Experience Required** Eric Wing,2014-05-19 Learn Revit Architecture the hands on way For those who like to learn by doing this Autodesk Official Press book shows you how to build a four story office building one step at a time providing you with real world practice you might expect to encounter on the job Concise explanations focused examples step by step instructions and an engaging hands on tutorial make this book the perfect way to learn Revit Architecture In addition you can download starting files for each chapter from the website in order to compare your work to the authors or start fresh with any chapter in the book Expert author Eric Wing first introduces the interface and Revit conventions and then moves directly into building modeling You ll learn to place walls doors and windows work with structural grids beams and foundations add text and dimensions and use dimensions as a design tool As the building takes shape you ll discover how to generate construction documentation create schedules work with families consider site issues and use Revit s rendering capabilities Here are some of the skills you can acquire from this book Understanding Revit s interface views and grids Creating and editing roofs railings stairs and ceilings Generating documentation and construction schedules Using advanced features like creating hosted families system families and formulas Autodesk Revit Architecture No Experience Required is a completely self paced guide You can work along with the tutorial from cover to cover or jump in anywhere No matter how you use this book you ll be able to transfer the useful concepts to your professional practice      *Learning Autodesk Revit* 2015 Kristen Smith,Victoria Shipley,2014-05-01 Learning Revit 2015 is uniquely designed to be an effective learning tool in both self paced and classroom environments This courseware will take you through the essential areas of Autodesk Revit which will enable you to master the tools needed to efficiently create and document a BIM model The content is organized in such a way that it intuitively guides you through the design process In each lesson you learn about the design process or tool the steps required to be successful and then an exercise that walks you through those steps and options so you experience it in a real world design scenario After you master the essential aspects of Revit the book then becomes a valuable desktop reference enabling you to dive deeper into the concepts processes and tools that will make you more productive The

information covered in this manual is written for Autodesk Revit or Autodesk Revit Architecture and is also applicable when working in Autodesk Revit MEP and Autodesk Revit Structure      The Aubin Academy Paul F. Aubin,Darryl McClelland,Martin Schmid Pe,Martin Schmid,2014-07-12 The Aubin Academy Master Series Revit r MEP is the ideal book to help readers successfully use Revit MEP It is a concise manual focused squarely on the rationale and practicality of the Revit MEP Building Information Model BIM process The book emphasizes the process of creating projects in MEP rather than a series of independent commands and tools The goal of each lesson is to help the reader complete their projects successfully Tools are introduced together in a focused process with a strong emphasis on why as well as how The text and exercises seek to give the reader a clear sense of the value of the tools and a clear indication of each tool s potential The Aubin Academy Master Series Revit MEP is a resource designed to shorten your learning curve raise your comfort level and most importantly give you real life tested practical advice on the usage of the software to create mechanical electrical and plumbing designs and calculations Empowered with the information within this book you will have insight into how to use Revit MEP to create coordinated BIM project models and documentation 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

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