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Professional is collaborative,
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BIM-integrated analysis and
design tools to help you
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2012. The comparison of results
is still valid for the next Robot

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versions. All examples have been taken from handbooks that include benchmark tests covering fundamental types of behavior encountered in structural analysis.

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"The essential guide to learning

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Discover workflows for steel and concrete design - Gain insights to help troubleshoot issues Guided exercises are provided to help cement fundamental concepts in Robot Structural Analysis and drive home key functions. Get up

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techniques - Harness Robot
automated load combinations -
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architects, structural engineers have developed a range of sophisticated modelling software to carry out the necessary structural analysis and design work. Advanced Modelling Techniques in Structural Design introduces numerical analysis

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methods to both students and design practitioners. It illustrates the modelling techniques used to solve structural design problems, covering most of the issues that an engineer might face, including lateral stability design of tall buildings; earthquake;

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progressive collapse; fire, blast and vibration analysis; non-linear geometric analysis and buckling analysis . Resolution of these design problems are demonstrated using a range of prestigious projects around the world, including the Buji Khalifa;

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Willis Towers; Taipei 101; the Gherkin; Millennium Bridge; Millau viaduct and the Forth Bridge, illustrating the practical steps required to begin a modelling exercise and showing how to select appropriate software tools to address specific design

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problems. Professional 2015

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Master the advanced functionality of the drainage-specific InfraWorks add-on Autodesk Drainage Design for InfraWorks 360 Essentials, 2nd Edition provides hands-on guidance to

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functions. The Drainage Design module includes tools and features that go beyond the base software, and this easy-to-follow guide walks you through the entire design process to show you how to take advantage of the advanced stormwater and flood-

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Compelling screenshots illustrate step-by-step tutorials, and the companion website provides downloadable starting and ending files so you can jump in at any point and compare your work to the pros. Autodesk is releasing

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Design Integration Using

Page 56/79

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Information Modeling (BIM) process. The topics cover the design integration of most of the building disciplines: Architectural, Interior Design, Structural, Mechanical, Plumbing and Electrical. Civil is not covered, but adding topography to your model

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is. Each book also includes access to nearly 100 video tutorials designed to further help you master Autodesk Revit.

Throughout the book you develop a two story law office. The drawings start with the floor plans and develop all the way to photo-

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realistic renderings similar to the one on the cover of this book. Along the way the building's structure, ductwork, plumbing and electrical (power and lighting) are modeled. By the end, you will have a thorough knowledge of many of the Revit basics needed

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to be productive in a classroom or office environment. Even if you will only be working with one component of Revit in your chosen profession, this book will give you important knowledge on how the other disciplines will be doing their work and valuable

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insight into the overall process.

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First book to discuss the analysis of structural steel connections by Finite Element Analysis—which provides fast, efficient, and

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flexible checking of these vital structural components The analysis of steel structures is complex—much more so than the analysis of similar concrete structures. There are no universally accepted rules for the analysis of connections in steel

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structures on the analysis of the stresses transferred from one connection to another. This book presents a general approach to steel connection analysis and check, which is the result of independent research that began more than fifteen years ago. It

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discusses the problems of connection analysis and describes a generally applicable methodology, based on Finite Element Analysis, for analyzing the connections in steel structures. That methodology has been implemented in software

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successfully, providing a fast, automatic, and flexible route to the design and analysis of the connections in steel structures. Steel Connection Analysis explains several general methods which have been researched and programmed during many years,

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and that can be used to tackle the problem of connection analysis in a very general way, with a limited and automated computational effort. It also covers several problems related to steel connection analysis automation. Uses Finite Element

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Analysis to discuss the analysis of structural steel connections

Analysis is applicable to all connections in steel structures

The methodology is the basis of the commercially successful CSE connection analysis software

Analysis is fast and flexible

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Structural engineers, fabricators, software developing firms, university researchers, and advanced students of civil and structural engineering will all benefit from Steel Connection Analysis.

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