

SolidWorks® 2015 Reference Guide

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Guide Utilisation Solidworks 2015

Joseph Musto, William Howard



Guide Utilisation Solidworks 2015:

SolidWorks 2015 Reference Guide David Planchard, 2014-11-02 The SolidWorks 2015 Reference Guide is a comprehensive reference book written to assist the beginner to intermediate user of SolidWorks 2015. SolidWorks is an immense software package and no one book can cover all topics for all users. This book provides a centralized reference location to address many of the tools, features, and techniques of SolidWorks 2015. This book covers the following: System and Document properties, FeatureManagers, PropertyManagers, ConfigurationManagers, RenderManagers, 2D and 3D Sketch tools, Sketch entities, 3D Feature tools, Motion Study, Sheet Metal, Motion Study, SolidWorks Simulation, PhotoView, 360Pack, and Go3D PDFs, Intelligent Modeling techniques, 3D printing terminology, and more. Chapter 1 provides a basic overview of the concepts and terminology used throughout this book using SolidWorks 2015 software. If you are completely new to SolidWorks, you should read Chapter 1 in detail and complete Lesson 1, Lesson 2, and Lesson 3 in the SolidWorks Tutorials. If you are familiar with an earlier release of SolidWorks, you still might want to skim Chapter 1 to become acquainted with some of the commands, menus, and features that you have not used or you can simply jump to any section in any chapter. Each chapter provides detailed PropertyManager information on key topics with individual stand-alone short tutorials to reinforce and demonstrate the functionality and ease of the SolidWorks tool or feature. The book provides access to over 240 models, their solutions, and additional support materials. Learn by doing, not just by reading. Formulate the skills to create, modify, and edit sketches and solid features. Learn the techniques to reuse features, parts, and assemblies through symmetry, patterns, copied components, design tables, configurations, and more. The book is designed to compliment the Online Tutorials and Online Help contained in SolidWorks 2015. The goal is to illustrate how multiple design situations and systematic steps combine to produce successful designs. The author developed the tutorials by combining his own industry experience with the knowledge of engineers, department managers, professors, vendors, and manufacturers. He is directly involved with SolidWorks every day, and his responsibilities go far beyond the creation of just a 3D model. *Beginner's Guide to SolidWorks 2015 - Level II* Alejandro Reyes, 2015-02. Beginner's Guide to SolidWorks 2015 Level II starts where Beginner's Guide Level I ends, following the same easy-to-read style and companion video instruction, but this time covering advanced topics and techniques. The purpose of this book is to teach advanced techniques, including sheet metal, surfacing, how to create components in the context of an assembly, and reference other components. Top-down design, propagate design changes with SolidWorks parametric capabilities, mold design, welded structures, and more, while explaining the basic concepts of each trade to allow you to understand the how and why of each operation. The author uses simple examples to allow you to better understand each command and environment, as well as to make it easier to explain the purpose of each step, maximizing the learning time by focusing on one task at a time. This book is focused on the processes to complete the modeling of a part instead of focusing on individual software commands or operations, which are generally simple enough to learn. At the end of this book, you will

have acquired enough skills to be highly competitive when it comes to designing with SolidWorks and while there are many less frequently used commands and options available that will not be covered in this book rest assured that those covered are most of the commands used every day by SolidWorks designers The author strived hard to include the commands required in the Certified SolidWorks Associate test as listed on the SolidWorks website and some as well as several more

Official Certified SOLIDWORKS Professional Certification Guide (SOLIDWORKS 2015 - 2017) David Planchard, 2017-05 This book will provide you with a wealth of information about the three segments of the CSWP CORE exam The intended audience for this book is a person who has passed the CSWA exam and who has eight or more months of SOLIDWORKS training and usage This guide is not intended to teach you how to use SOLIDWORKS but is written to provide you with CSWP exam tips hints and information on sample questions and categories that are aligned with the exam This guide is written to help you take and pass the CSWP exam The book is organized into three chapters Each chapter is focused on a segment of the CSWP CORE exam This is not intended to be a step by step book Goals of this book The primary goal is not only to help you pass the CSWP CORE exam but also to ensure that you understand and comprehend the concepts and implementation details of the process The second goal is to provide the most comprehensive coverage of CSWP CORE exam related topics available without too much coverage of topics not on the exam The third and ultimate goal is to get you from where you are today to the point that you can confidently pass all three segments of the CSWP CORE exam Who this book is for The intended audience for this book and the CSWP exam is a person who has passed the CSWA exam and who has eight or more months of SOLIDWORKS training and usage However passing the CSWA exam is not a prerequisite for taking the CSWP exam if you are a commercial user in industry For students that take the CSWP exam through their school you must first pass the CSWA exam

Engineering Design with SolidWorks 2015 and Video Instruction David Planchard, 2014-11-28 Engineering Design with SolidWorks 2015 and video instruction is written to assist students designers engineers and professionals The book provides a solid foundation in SolidWorks by utilizing projects with step by step instructions for the beginner to intermediate SolidWorks user Explore the user interface CommandManager menus toolbars and modeling techniques to create parts assemblies and drawings in an engineering environment Follow the step by step instructions and develop multiple parts and assemblies that combine machined plastic and sheet metal components Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components Design Tables Bills of Materials Custom Properties and Configurations Address various SolidWorks analysis tools and Intelligent Modeling techniques along with Additive Manufacturing 3D printing Learn by doing not just by reading Desired outcomes and usage competencies are listed for each project Know your objective up front Follow the steps in Projects 1 9 to achieve the design goals Review Project 10 on Additive Manufacturing 3D printing and its benefits and features Understand the terms and technology used in low cost 3D printers Work between multiple documents features

commands and custom properties that represent how engineers and designers utilize SolidWorks in industry Review individual features commands and tools with the Video Instruction The projects contain exercises The exercises analyze and examine usage competencies Collaborate with leading industry suppliers such as SMC Corporation of America Boston Gear and 80 20 Inc Collaborative information translates into numerous formats such as paper drawings electronic files rendered images and animations On line intelligent catalogs guide designers to the product that meets both their geometric requirements and performance functionality The author developed the industry scenarios by combining his own industry experience with the knowledge of engineers department managers vendors and manufacturers These professionals are directly involved with SolidWorks every day Their responsibilities go far beyond the creation of just a 3D model The book is designed to compliment the SolidWorks Tutorials contained in SolidWorks 2015 View the provided videos in the book to enhance the user experience SolidWorks Interface 2D Sketching Sketch Planes and Sketch tools 3D Features and Design Intent Creating an Assembly Fundamentals in Drawings Part 1 Part 2 [Engineering & Computer Graphics Workbook Using SOLIDWORKS 2015](#) Ronald Barr, Davor Juricic, Thomas Krueger, 2015 Engineering Computer Graphics Workbook Using SOLIDWORKS 2015 is an exercise based workbook that uses step by step tutorials to cover the fundamentals of SOLIDWORKS 2015 The intended audience is college undergraduate engineering majors but it could also be used in pre college introductory engineering courses or by self learners The text follows an educational paradigm that was researched and developed by the authors over many years The paradigm is based on the concurrent engineering approach to engineering design in which the 3 D solid model data serves as the central hub for all aspects of the design process The workbook systematically instructs the students to develop 3 D models using the rich tools afforded in SOLIDWORKS The exercises then proceed to instruct the students on applications of the solid model to design analysis using finite elements to assembly modeling and checking to kinematic simulation to rapid prototyping and finally to projecting an engineering drawing The workbook is ideally suited for courses in which a reverse engineering design project is assigned This book contains clear and easy to understand instructions that enable the students to robustly learn the main features of SOLIDWORKS with little or no instructor input **Official Guide to Certified SolidWorks Associate Exams - CSWA, CSDA, CSWSA-FEA SolidWorks 2015, 2014, 2013, and 2012** David C. Planchard, 2014-11-28 The Official Guide to Certified SolidWorks Associate Exams CSWA CSDA CSWSA FEA is written to assist the SolidWorks user to pass the associate level exams Information is provided to aid a person to pass the Certified SolidWorks Associate CSWA Certified Sustainable Design Associate CSDA and the Certified SolidWorks Simulation Associate Finite Element Analysis CSWSA FEA exams There are three goals for this book The primary goal is not only to help you pass the CSWA CSDA and CSWSA FEA exams but also to ensure that you understand and comprehend the concepts and implementation details of the three certification processes The second goal is to provide the most comprehensive coverage of CSWA CSDA and CSWSA FEA exam related topics

available without too much coverage of topics not on the exam The third and ultimate goal is to get you from where you are today to the point that you can confidently pass the CSWA CSDA and the CSWSA FEA exam The Certified SolidWorks Associate CSWA certification indicates a foundation in and apprentice knowledge of 3D CAD design and engineering practices and principles Passing this exam provides students the chance to prove their knowledge and expertise and to be part of a worldwide industry certification standard The Certified Sustainable Design Associate CSDA certification indicates a foundation in and apprentice knowledge of demonstrating an understanding in the principles of environmental assessment and sustainable design The Certified SolidWorks Simulation Associate Finite Element Analysis CSWSA FEA certification indicates a foundation in and apprentice knowledge of demonstrating an understanding in the principles of stress analysis and finite element analysis SolidWorks 2012 or higher is required to take the exam Official Guide to Certified SOLIDWORKS Associate Exams: CSWA, CSDA, CSWSA-FEA (SOLIDWORKS 2015 - 2017) David Planchard, 2017-02 The Official Guide to Certified SOLIDWORKS Associate Exams CSWA CSDA CSWSA FEA is written to assist the SOLIDWORKS user to pass the associate level exams Information is provided to aid a person to pass the Certified SOLIDWORKS Associate CSWA Certified SOLIDWORKS Sustainable Design Associate CSDA and the Certified SOLIDWORKS Simulation Associate Finite Element Analysis CSWSA FEA exam There are three goals for this book The primary goal is not only to help you pass the CSWA CSDA and CSWSA FEA exams but also to ensure that you understand and comprehend the concepts and implementation details of the three certification processes The second goal is to provide the most comprehensive coverage of CSWA CSDA and CSWSA FEA exam related topics available without too much coverage of topics not on the exam The third and ultimate goal is to get you from where you are today to the point that you can confidently pass the CSWA CSDA and the CSWSA FEA exam The Certified SOLIDWORKS Associate CSWA certification indicates a foundation in and apprentice knowledge of 3D CAD design and engineering practices and principles Passing this exam provides students the chance to prove their knowledge and expertise and to be part of a worldwide industry certification standard The Certified SOLIDWORKS Sustainable Design Associate CSDA certification indicates a foundation in and apprentice knowledge of demonstrating an understanding in the principles of environmental assessment and sustainable design The Certified SOLIDWORKS Simulation Associate Finite Element Analysis CSWSA FEA certification indicates a foundation in and apprentice knowledge of demonstrating an understanding in the principles of stress analysis and the Finite Element Method FEM **Introduction to Finite Element Analysis Using SOLIDWORKS Simulation 2015** Randy Shih, 2015 The primary goal of Introduction to Finite Element Analysis Using SOLIDWORKS Simulation 2015 is to introduce the aspects of Finite Element Analysis FEA that are important to engineers and designers Theoretical aspects of FEA are also introduced as they are needed to help better understand the operation The primary emphasis of the text is placed on the practical concepts and procedures needed to use SOLIDWORKS Simulation in performing Linear Static Stress Analysis and basic Modal Analysis

This text covers SOLIDWORKS Simulation and the lessons proceed in a pedagogical fashion to guide you from constructing basic truss elements to generating three dimensional solid elements from solid models This text takes a hands on exercise intensive approach to all the important FEA techniques and concepts This textbook contains a series of fourteen tutorial style lessons designed to introduce beginning FEA users to SOLIDWORKS Simulation The basic premise of this book is that the more designs you create using SOLIDWORKS Simulation the better you learn the software With this in mind each lesson introduces a new set of commands and concepts building on previous lessons

SolidWorks 2016 Reference Guide David Planchard, 2015-12-16 The SOLIDWORKS 2016 Reference Guide is a comprehensive reference book written to assist the beginner to intermediate user of SOLIDWORKS 2016 SOLIDWORKS is an immense software package and no one book can cover all topics for all users This book provides a centralized reference location to address many of the tools features and techniques of SOLIDWORKS 2016 This book covers the following System and Document properties Feature Managers Property Managers Configuration Managers Render Managers 2D and 3D Sketch tools Sketch entities 3D Feature tools Motion Study Sheet Metal Motion Study SolidWorks Simulation PhotoView 360 Pack and Go 3D PDFs Intelligent Modeling techniques 3D printing terminology and more Chapter 1 provides a basic overview of the concepts and terminology used throughout this book using SOLIDWORKS 2016 software If you are completely new to SOLIDWORKS you should read Chapter 1 in detail and complete Lesson 1 Lesson 2 and Lesson 3 in the SOLIDWORKS Tutorials If you are familiar with an earlier release of SOLIDWORKS you still might want to skim Chapter 1 to become acquainted with some of the commands menus and features that you have not used or you can simply jump to any section in any chapter Each chapter provides detailed Property Manager information on key topics with individual stand alone short tutorials to reinforce and demonstrate the functionality and ease of the SOLIDWORKS tool or feature The book provides access to over 240 models their solutions and additional support materials Learn by doing not just by reading Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components design tables configurations and more The book is designed to compliment the Online Tutorials and Online Help contained in SOLIDWORKS 2016 The goal is to illustrate how multiple design situations and systematic steps combine to produce successful designs The author developed the tutorials by combining his own industry experience with the knowledge of engineers department managers professors vendors and manufacturers He is directly involved with SOLIDWORKS every day and his responsibilities go far beyond the creation of just a 3D model

Beginner's Guide to SolidWorks 2015 - Level I Alejandro Reyes, 2015-01-14 This book is intended to help new users learn the basic concepts of SolidWorks and good solid modeling techniques in an easy to follow guide that includes video instruction It is a great starting point for those new to SolidWorks or as a teaching aid in classroom training to become familiar with the software's interface basic commands and strategies as users complete a series of models while learning different ways to accomplish a particular

task At the end of this book you will have a fairly good understanding of the SolidWorks interface and the most commonly used commands for part modeling assembly and detailing after completing a series of components and their 2D drawings complete with Bill of Materials The book focuses on the processes to complete the modeling of a part instead of focusing on individual software commands or operations which are generally simple enough to learn The author strived hard to include the commands required in the Certified SolidWorks Associate test as listed on the SolidWorks website as well as several more SolidWorks is an easy to use CAD software that includes many time saving tools that will enable new and experienced users to complete design tasks faster than before Most commands covered in this book have advanced options which may not be covered in this book This is meant to be a starting point to help new users to learn the basic and most frequently used commands

Solidworks 2015 Cadartifex,2015 SOLIDWORKS 2015 A Power Guide for Beginner and Intermediate Users textbook is designed for instructor led courses as well as for self paced learning This textbook is intended to help engineers and designers who are interested in learning SOLIDWORKS for creating 3D mechanical design It will be a great starting point for new SOLIDWORKS users and a great teaching aid in classroom training This textbook contains of 13 chapters covering major environments of SOLIDWORKS Part Assembly and Drawing which teaches you how to use the SOLIDWORKS mechanical design software to build parametric models and assemblies and how to make drawings of those parts and assemblies This textbook is not only focuses on the uses of tools commands of SOLIDWORKS but also on the concept of design Every chapter of this textbook contains tutorials which intend to help user to experience how things can be done in SOLIDWORKS step by step Moreover every chapter ends with hands on test drives which allow users of this textbook to experience themselves the ease of use and powerful capabilities of SOLIDWORKS Table of Contents Chapter 1 Introduction to SOLIDWORKS Chapter 2 Drawing Sketches with SOLIDWORKS Chapter 3 Editing and Modifying Sketches Chapter 4 Applying Geometric Relations and Dimensions Chapter 5 Creating First Base Feature of a Solid Model Chapter 6 Creating Reference Geometries Chapter 7 Advanced Modeling I Chapter 8 Advanced Modeling II Chapter 9 Patterning and Mirroring Chapter 10 Advanced Modeling III Chapter 11 Working with Assemblies I Chapter 12 Working with Assemblies II Chapter 13 Working with Drawing

Solidworks 2015 CADArtifex,2015 SOLIDWORKS 2015 A Power Guide for Beginner and Intermediate Users textbook is designed for instructor led courses as well as for self paced learning This textbook is intended to help engineers and designers who are interested in learning SOLIDWORKS for creating 3D mechanical design It will be a great starting point for new SOLIDWORKS users and a great teaching aid in classroom training This textbook contains of 13 chapters covering major environments of SOLIDWORKS Part Assembly and Drawing which teaches you how to use the SOLIDWORKS mechanical design software to build parametric models and assemblies and how to make drawings of those parts and assemblies This textbook is not only focuses on the uses of tools commands of SOLIDWORKS but also on the concept of design Every chapter of this textbook contains tutorials which intend to help user to experience how things can be

done in SOLIDWORKS step by step Moreover every chapter ends with hands on test drives which allow users of this textbook to experience themselves the ease of use and powerful capabilities of SOLIDWORKS Table of Contents Chapter 1

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Economique Tourisme d IGRETEC a le plaisir de vous pr senter la 25 me Edition du Guide des Aides Publiques en faveur des PME de la r gion de Charleroi et Sud Hainaut Cet ouvrage labor et publi depuis 1985 par IGRETEC dans le cadre de sa mission de sensibilisation d information et d accompagnement des PME est le fruit de 30 ans d exp rience et surtout d une veille active permanente sur l ensemble des mesures dont peuvent b n ficier les entreprises de la r gion de Charleroi et du Sud Hainaut Il vous permettra aussi d appr cier la contribution des principales aides publiques r gionales f d rales et europ ennes aux objectifs strat giques de votre entreprise V ritable r f rence dans son domaine il vous accompagne avec le soutien de nos conseillers conomiques dans vos diff rents projets Que vous souhaitiez engager ou former du personnel r aliser des investissements repenser vos m thodes de travail innover investir dans les nergies renouvelables ou le tourisme ou encore vous d velopper l international cette 25 me Edition du Guide des Aides Publiques en faveur des PME vous apporte les informations indispensables et n cessaires pour la r alisation de vos ambitions Quelles sont les grandes nouveaut s de la 25 me Edition SESAM Outplacement Bourse Innovation d veloppement durable Partenariat Public Priv Prototyping CWALity Boost Up Aides au Tourisme Et ce n est pas tout Soucieux d int grer le d veloppement durable et les technologies de l information et de la communication cette 25 me dition devient enti rement digitalis e Disponible aussi bien sur tablette smartphone que PC cette dition offrira un confort de navigation optimal incluant des options telles que le partage sur les r seaux sociaux l utilisation de marque pages personnels la s lection de texte une table des mati res interactives ainsi que bien entendu la possibilit de le t l charger et d imprimer les parties qui vous int ressent **Beginner's Guide to Solidworks**

2015 Alejandro Reyes,2015 **Computer-Integrated Engineering Design and Manufacture** Wilson R

Nyemba,2025-10-21 This book presents advanced concepts of computer aided design and computer aided manufacture through modelling and computer numerical control coupled with the simulation of production systems It dwells on the subtle and key features such as the applications and effective use of dynamic blocks in modelling subtractive and additive layer manufacturing flexible manufacturing systems and automation and robotics The text Discusses the principles of computer aided design in a comprehensive manner and applications of the AutoCAD interface programming language Covers aspects of product development and design together with accompanying principles of design for manufacture and assembly Explains

the integrated approach to design and manufacture enhanced by modelling simulation and analysis software with capabilities for electronic transfer and interchange between the software packages Presents process planning and part programming with MasterCAM generating toolpaths and selecting machine tools for subtractive manufacturing and step by step worked examples to enhance the understanding of principles and concepts of engineering design and manufacture Explores sequential control and logical sequencing configuration of industrial robots and challenges in programming robots The integrated nature of this book and the examples therein are intended for senior undergraduates graduate students academic researchers and practising engineers in various fields of engineering such as but not limited to aeronautical civil electrical industrial manufacturing mechanical mechatronics and production engineering *Parametric Modeling with SOLIDWORKS 2015* Paul Schilling,Randy Shih,2015-02 Parametric Modeling with SOLIDWORKS 2015 contains a series of sixteen tutorial style lessons designed to introduce SOLIDWORKS 2015 solid modeling and parametric modeling techniques and concepts This book introduces SOLIDWORKS 2015 on a step by step basis starting with constructing basic shapes all the way through to the creation of assembly drawings and motion analysis This book takes a hands on exercise intensive approach to all the important Parametric Modeling techniques and concepts Each lesson introduces a new set of commands and concepts building on previous lessons The lessons guide the user from constructing basic shapes to building intelligent solid models assemblies and creating multi view drawings This book also covers some of the more advanced features of SOLIDWORKS 2015 including how to use the SOLIDWORKS Design Library basic motion analysis collision detection and analysis with SimulationXpress The exercises in this book cover the performance tasks that are included on the Certified SOLIDWORKS Associate CSWA Examination Reference guides located at the front of the book and in each chapter show where these performance tasks are covered **Introduction to Solid Modeling Using SolidWorks 2015** Joseph Musto,William Howard,2015-05-21 The new edition of Introduction to Solid Modeling Using SolidWorks 2015 has been fully updated for the SolidWorks 2015 software package All tutorials and figures have been modified for the new version of the software The eleventh edition of this text primarily consists of chapter long tutorials which introduce both basic concepts in solid modeling and more advanced applications of solid modeling in engineering analysis and design Each tutorial is organized as keystroke level instructions designed to teach the use of the software While these tutorials offer a level of detail appropriate for new professional users this text was developed to be used as part of an introductory engineering course taught around the use of solid modeling as an integrated engineering design and analysis tool Features such as Design Intent Boxes and Future Study Boxes help to integrate the concepts learned in solid modeling into the overall study of engineering Additional resources are also available with this text at www.mhhe.com/howard2015 Included on the website are tutorials for three popular SolidWorks Add Ins SolidWorks Simulation SolidWorks Motion and PhotoView 360 and the book figures in PowerPoint format Instructors can also access PowerPoint files for each chapter and model files for all tutorials and end of chapter problems as

well as a teaching guide SolidWorks 2015 Part II - Advanced Techniques Paul Tran, 2014-12-12 SolidWorks 2015 Part II Advanced Techniques picks up where SolidWorks 2015 Part I Basic Tools leaves off Its aim is to take you from an intermediate user with a basic understanding of SolidWorks and modeling techniques to an advanced user capable of creating complex models and able to use the advanced tools provided by SolidWorks The text covers parts surfaces SimulationXpress sheet metal top down assemblies and core and cavity molds Every lesson and exercise in this book was created based on real world projects Each of these projects have been broken down and developed into easy and comprehensible steps for the reader Furthermore at the end of every chapter there are self test questionnaires to ensure that the reader has gained sufficient knowledge from each section before moving on to more advanced lessons This book takes the approach that in order to understand SolidWorks inside and out the reader should create everything from the beginning and take it step by step Who this book is for This book is for the intermediate user who has already completed the Part I Basic Tools book or someone who is very familiar with the SolidWorks Program and its add ins **Beginner's Guide to Solidworks 2015, Level Ii** Alejandro Reyes, 2015 **SOLIDWORKS 2015 and Engineering Graphics** Randy Shih, 2015 SOLIDWORKS 2015 and Engineering Graphics An Integrated Approach combines an introduction to SOLIDWORKS 2015 with a comprehensive coverage of engineering graphics principles Not only will this unified approach give your course a smoother flow your students will also save money on their textbooks What s more the exercises in this book cover the performance tasks that are included on the Certified SOLIDWORKS Associate CSWA Examination Reference guides located at the front of the book and in each chapter show where these performance tasks are covered The primary goal of SOLIDWORKS 2015 and Engineering Graphics An Integrated Approach is to introduce the aspects of Engineering Graphics with the use of modern Computer Aided Design package SOLIDWORKS 2015 This text is intended to be used as a training guide for students and professionals The chapters in this text proceed in a pedagogical fashion to guide you from constructing basic shapes to making complete sets of engineering drawings This text takes a hands on exercise intensive approach to all the important concepts of Engineering Graphics as well as in depth discussions of parametric feature based CAD techniques This textbook contains a series of fifteen chapters with detailed step by step tutorial style lessons designed to introduce beginning CAD users to the graphics language used in all branches of technical industry This book does not attempt to cover all of SOLIDWORKS 2015 s features only to provide an introduction to the software It is intended to help you establish a good basis for exploring and growing in the exciting field of Computer Aided Engineering

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Guide Utilisation Solidworks 2015 Introduction

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