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Basic Training - How to
import geometry
Getting Started with the
SolidWorks 2012
Creating an Assembly
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Solidworks 2012
Tutorial | Sweep with
Guide Curves
SolidWorks 2012 - Fully
Defining Sketches Learn

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SolidWorks 2012 Video

Tutorial - How to create
and use an assembly
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Author: Solidworks

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2001Plus Applications

in Sheet Metal Using

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Pro/ENGINEER

Acknowledgements

Writing this book was a

substantial effort that

would not have been

possible without the

help and support of my

loving family and of my

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professional colleagues.

I would like to thank

Professor John M.

Sullivan Jr., Professor ...

INTRODUCTION -

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Instruction is target
towards a technical
school, two year college,
four year university or
industry professional
that is a beginner or
intermediate CAD user.

The text provides a
student who is looking
for a step-by-step project
based approach to
learning SolidWorks
with an enclosed 1.5
hour video instruction

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Manual

DVD, SolidWorks model files, and preparation for the CSWA exam. The book is divided into two sections. Chapters 1 - 7 explore the SolidWorks User Interface and CommandManager, Document and System properties, simple machine parts, simple and complex assemblies, design tables,

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configurations, multi-sheet, multi-view drawings, BOMs, Revision tables using basic and advanced features along with Intelligent Modeling Techniques, SustainabilityXpress, SimulationXpress and DFMXpress. Chapters 8 - 11 prepare you for the new Certified SolidWorks Associate

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Exam (CSWA). The CSWA certification indicates a foundation in and apprentice knowledge of 3D CAD and engineering practices and principles. Follow the step-by-step instructions and develop multiple assemblies that combine over 100 extruded machined parts and components. Formulate the skills to

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Manual

create, modify and edit sketches and solid features. Learn the techniques to reuse features, parts and assemblies through symmetry, patterns, copied components, design tables and configurations. Learn by doing, not just by reading! Desired outcomes and usage competencies are listed

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Manual

for each chapter. Know your objective up front. Follow the steps in each chapter to achieve your design goals. Work between multiple documents, features, commands, custom properties and document properties that represent how engineers and designers utilize SolidWorks in industry.

Online Library Manual Solidworks

The Commands Guide
Tutorial for SolidWorks
2012 is a comprehensive
reference book written
to assist the beginner to
intermediate user of
SolidWorks 2012.
SolidWorks is an
immense software
package, and no one
book can cover all topics
for all users. The book
provides a centralized

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reference location to address many of the tools, features and techniques of SolidWorks 2012. This book covers the following: System and Document properties
FeatureManagers
PropertyManagers
ConfigurationManagers
RenderManagers 2D and 3D
Sketch tools
Sketch entities 3D

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Feature tools Motion
Study Sheet Metal
Motion Study
Sustainability
Sustainability Xpress
FlowXpress PhotoView
360 Pack and Go
Intelligent Modeling
techniques and more.
Chapter 1 provides a
basic overview of the
concepts and
terminology used
throughout this book

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using SolidWorks®

2012 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

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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 (18 total) provides detail PropertyManager information on key topics with individual stand alone short tutorials to reinforce and demonstrate the functionality and ease of

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Manual

the SolidWorks tool or feature. All models for the 240 plus tutorials are located on the enclosed book CD with their solution (initial and final). 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

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assemblies through symmetry, patterns, copied components, design tables, configurations and more. The book is design to compliment the Online Tutorials and Online Help contained in SolidWorks 2012. The goal is to illustrate how multiple design situations and systematic steps

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combine to produce successful designs. The authors developed the tutorials by combining their own industry experience with the knowledge of engineers, department managers, professors, vendors and manufacturers. These professionals are directly involved with SolidWorks everyday. Their responsibilities go

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Manual

far beyond the creation
of just a 3D model.

Beginner ' s Guide to
SolidWorks 2012 –
Level II starts where
Beginner ' s Guide –
Level I ends, following
the same easy to read
style, but this time
covering advanced
topics and techniques.
The purpose of this
book is to teach

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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

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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

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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

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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

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in the Certified

SolidWorks Associate
2012
test as listed on the
SolidWorks website, and
some, as well as several
more.

Engineering Graphics
with SolidWorks 2012
and Video Instruction
DVD is written to assist
technical school, two
year college, four year
university

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Manual

instructor/student or
industry professional
that is a beginner or
intermediate

SolidWorks user. The
book combines the
fundamentals of
engineering graphics
and dimensioning
practices with a step-by-
step project based
approach to learning
SolidWorks with the
enclosed 1.5 hour Video

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Instruction DVD. Learn by doing, not just by reading! The book is divided into two parts: Engineering Graphics and SolidWorks 3D CAD software. In Chapter 1 through Chapter 3, you explore the history of engineering graphics, manual sketching techniques, orthographic projection,

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isometric projection,
multi-view drawings,
dimensioning practices
and the history of CAD
leading to the
development of
SolidWorks. In Chapter
4 through Chapter 8,
you apply engineering
graphics fundamentals
and learn the
SolidWorks User
Interface, Document
and System properties,

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Simple parts, simple and complex assemblies, design tables, configurations, multi-sheet, multi-view drawings, Bill of Materials, Revision tables, basic and advanced features. Follow the step-by-step instructions in over 70 activities to develop eight parts, four sub-assemblies, three

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drawings, and six
document templates.

Formulate the skills to
create and modify solid
features to model a 3D
FLASHLIGHT

assembly. Chapter 9
provides a bonus section
on the Certified
SolidWorks Associate
CSWA program with
sample exam questions
and initial and final
SolidWorks models.

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Manual

Passing the CSWA exam proves to employers that you have the necessary fundamental engineering graphics and SolidWorks competencies. Review individual features, commands, and tools for each project with the book 's 1.5 hour Video Instruction DVD and SolidWorks Help. The

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chapter exercises

analyze and examine usage competencies based on the project objectives. The book is designed to compliment the SolidWorks Tutorials located in the SolidWorks Help menu. Each section explores the SolidWorks Online User ' s Guide to build your working knowledge of SolidWorks. Desired

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outcomes and usage competencies are listed for each project. Know your objectives up front. Follow the step-by step procedures to achieve your design goals. Work between multiple documents, features, commands, and properties that represent how engineers and designers utilize SolidWorks in industry.

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The authors developed the industry scenarios by combining their own industry experience with the knowledge of engineers, department managers, vendors, and manufacturers. These professionals are directly involved with SolidWorks everyday. Their responsibilities go far beyond the creation of just a 3D model.

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Manual

Solidworks

Engineering Design
with SolidWorks 2011 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
beginning to
intermediate
SolidWorks user.

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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

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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

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analysis tools:

SimulationXpress,
Sustainability /
SustainabilityXpress
and DFMXpress and
Intelligent Modeling
techniques. 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

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Project 1 - 8 to achieve the design goals. 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 enclosed Multi-media CD. The projects contain

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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.

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On-line intelligent catalogs guide designers to the product that meets both their geometric requirements and performance functionality. The authors developed the industry scenarios by combining their own industry experience with the knowledge of engineers, department managers, vendors and

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manufacturers. These professionals are directly involved with SolidWorks everyday. Their responsibilities go far beyond the creation of just a 3D model. The book is designed to compliment the SolidWorks Tutorials contained in SolidWorks 2011.

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with SolidWorks 2012 is written to educate and assist students, designers, engineers, and professionals in the drawing and detailing tools of SolidWorks. Explore the learning process through a series of design situations, industry scenarios, projects, and objectives target towards the beginning to

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intermediate

SolidWorks user. Work through numerous activities to create multiple-view, multiple-sheet, detailed drawings, and assembly drawings.

Develop Drawing templates, Sheet formats, and Custom Properties. Construct drawings that incorporate part configurations, assembly

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configurations, and design tables with equations. Manipulate annotations in parts, drawings, assemblies, Revision tables, Bills of Materials and more. Apply your drawing and detailing knowledge to over thirty exercises. The exercises test your usage competency as well as explore additional topics with

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industry examples.

Advanced exercises require the ability to create parts and assemblies. Drawing and Detailing with SolidWorks 2012 is not a reference book for all drafting and drawing techniques and tools.

The book provides information and examples in the following areas: History

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of engineering graphics,
manual sketching
techniques,
orthographic projection,
isometric projection,
multi-view drawings,
dimensioning practices,
fasteners in general,
tolerance and fit and the
history of CAD leading
to the development of
SolidWorks. Start a
SolidWorks 2012 session
and to understand the

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Manual

following interfaces:

Menu bar toolbar,
Menu bar menu, Drop-down menus, Context toolbars, Consolidated drop-down toolbars, System feedback icons, Confirmation Corner, Heads-up View toolbar, Document Properties and more. Apply Document Properties to reflect the ASME Y14 Engineering Drawing

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and related Drawing Practices. Import an AutoCAD file as a Sheet format. Insert SolidWorks System Properties and Custom Properties. Create new SolidWorks Document tabs. Create multi-sheet drawings from various part configurations and develop the following drawing views:

Standard, Isometric,

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Auxiliary, Section,
Broken Section, Detail,
Half Section (Cut-away),
Crop, Projected Back,
with a Bill of Materials
and a Revision Table
and Revisions. Insert
and edit: Dimensions,
Feature Control
Frames, Datums,
Geometric Tolerancing,
Surface Finishes, and
Weld Symbols using
DimXpert and manual

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techniques. Create, apply, and save Blocks and Parametric Notes in a drawing. Chapter 10 provides a bonus section on the Certified SolidWorks Associate CSWA program with sample exam questions and initial and final SolidWorks models. The book is designed to compliment the SolidWorks Users

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Guide, SolidWorks
Reference Guide,
Standards, Engineering
Drawing/Design and
Graphics

Communications
reference books. The
authors recognize that
companies utilize
additional drawing
standards. The authors
developed the industry
scenarios by combining
industry experience with

Online Library Manual

their knowledge of engineers, sales, vendors and manufacturers.

These professionals are directly involved with SolidWorks everyday.

Their work goes far beyond a simple drawing with a few dimensions. They create detailed drawings, assembly drawings, marketing drawings and customer drawings.

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SolidWorks users work between drawings, parts, assemblies and many other documents to complete a project on time.

Assembly Modeling with SolidWorks 2012 is written to assist the beginning SolidWorks user with a few months of design experience to the intermediate

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SolidWorks user who desires to enhance their skill sets in assembly modeling. The book provides a solid foundation in assembly modeling using competency-based projects. In step-by-step instructions, the book provides examples to: Start a SolidWorks session and to understand the

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following interfaces:

Menu bar toolbar,
Menu bar menu, Drop-
down menus, Context
toolbars, Consolidated
drop-down toolbars,
System feedback icons,
Confirmation Corner,
Heads-up View toolbar,
CommandManager,
and more. Set System
Options and Document
Properties as they apply
to a part and assembly

Online Library

Manual

template. Create new SolidWorks folder locations: Document Templates, Reference Documents, and Design Library. Download components from 3D ContentCentral and rename and save components using SolidWorks Explorer. Apply the Bottom-up assembly approach with two levels of

Online Library

Manual

configurations using the Configure Component tool, the Configure Dimension tool, Design Tables, and the Add Configuration tool.

Create new parts based on component features utilizing the Bottom-up assembly approach.

Apply Standard Mates, SmartMates, and the Design Library

Toolbox. Apply the Top-

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down assembly

approach with two levels
of configurations with In-
Context components.

Understand the
following: Out-of-
Context components,
External References,
InPlace Mates,
redefining and replacing
components and motion
studies. Apply the
Derived Feature
Component Pattern

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Manual

tool, Linear Component Pattern tool, and the Mirror Component tool along with the Explode Line Sketch tool. Create a multi sheet, multi view assembly drawing.

Knowledge of Custom Properties in a part/assembly and linked notes, with the ability to incorporate configurations of an Exploded view, Bill of

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Materials, Revision
tables, and more.

Address the Layout-
based assembly
approach and Global
Variables and Equations
to control relationships.
Each chapter begins
with the desired
outcomes and usage
competencies. Explore
assembly modeling
techniques through a
series of design

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situations, industry scenarios, projects and objectives. Chapter 9 provides a bonus section on the Certified SolidWorks Associate CSWA program with sample exam questions and initial and final SolidWorks models. Passing the CSWA exam proves to employers that you have the necessary

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fundamental

engineering graphics
and SolidWorks

competencies. The book
compliments and
enhances the

SolidWorks Tutorials.

Although over 150

SolidWorks tools and
commands are utilized
in Assembly Modeling
with SolidWorks 2012,
the book is not a
reference guide. The

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book is a self-paced tutorial in a realistic design setting. Complex models expose you to large assembly modeling techniques. You focus on the design process while learning the commands relative to assemblies. To obtain the most from this text, you should be familiar with the SolidWorks User Interface or other

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parametric modeling software application. Your skill sets should include the ability to create simple parts, assemblies, and drawings and manipulate documents through the Windows operating system. The authors developed the industry scenarios by combining their own industry experience with

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the knowledge of engineers, department managers, vendors and manufacturers. These professionals are directly involved with SolidWorks everyday. They create assemblies with thousands of components and drawings with hundreds of sheets. Their responsibilities go far beyond the creation of

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just a 3D model.

2012

Engineering Analysis
with SolidWorks
Simulation 2012 goes
beyond the standard
software manual. Its
unique approach
concurrently introduces
you to the SolidWorks
Simulation 2012
software and the
fundamentals of Finite
Element Analysis (FEA)

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Manual

through hands-on exercises. A number of projects are presented using commonly used parts to illustrate the analysis features of SolidWorks Simulation. Each chapter is designed to build on the skills, experiences and understanding gained from the previous chapters. Topics covered: Linear static

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analysis of parts and
assemblies Contact
stress analysis

Frequency (modal)
analysis Buckling
analysis Thermal

analysis Drop test
analysis Nonlinear
analysis Dynamic

analysis Random
vibration analysis h and
p adaptive solution
methods Modeling
techniques

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Manual

Implementation of FEA
in the design process
Management of FEA
projects FEA
terminology

Engineering Design
with SolidWorks 2012 is
written to assist students,
designers, engineers and
professionals. The book
provides a solid
foundation in
SolidWorks by utilizing

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projects with step-by-step instructions for the beginning 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

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Manual

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,

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design tables, Bills of Materials, Custom Properties and Configurations. Address various SolidWorks analysis tools: SimulationXpress, Sustainability / SustainabilityXpress and DFMXpress and Intelligent Modeling techniques. Learn by doing, not just by reading! Desired

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outcomes and usage competencies are listed for each project. Know your objective up front. Follow the steps in Projects 1 - 8 to achieve the design goals. Work between multiple documents, features, commands and custom properties that represent how engineers and designers utilize SolidWorks in industry.

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Manual

Review individual features, commands and tools with the enclosed multimedia DVD. 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

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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 authors developed the industry scenarios by

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Combining their own industry experience with the knowledge of engineers, department managers, vendors and manufacturers. These professionals are directly involved with SolidWorks everyday. Their responsibilities go far beyond the creation of just a 3D model. The book is designed to compliment the

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SolidWorks Tutorials
contained in SolidWorks
2012.

An Introduction to
SOLIDWORKS Flow
Simulation 2016 takes
you through the steps of
creating the
SOLIDWORKS part
for the simulation
followed by the setup
and calculation of the
SOLIDWORKS Flow

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Simulation project. The results from calculations are visualized and compared with theoretical solutions and empirical data. Each chapter starts with the objectives and a description of the specific problems that are studied. End of chapter exercises are included for reinforcement and

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practice of what has been learned. The fourteen chapters of this book are directed towards first-time to intermediate level users of SOLIDWORKS Flow Simulation. It is intended to be a supplement to undergraduate Fluid Mechanics and Heat Transfer related courses. This book can also be

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used to show students the capabilities of fluid flow and heat transfer simulations in freshman and sophomore courses such as Introduction to Engineering. Both internal and external flow problems are covered and compared with experimental results and analytical solutions. Covered topics include airfoil

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flow, boundary layers,
flow meters, heat
exchanger, natural and
forced convection, pipe
flow, rotating flow, tube
bank flow and valve
flow.

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