



Learning SOLIDWORKS 2016

Randy Shih

Download now

[Click here](#) if your download doesn't start automatically

Learning SOLIDWORKS 2016

Randy Shih

Learning SOLIDWORKS 2016 Randy Shih

This book will teach you everything you need to know to start using SOLIDWORKS 2016 with easy to understand, step-by-step tutorials. This book features a simple robot design used as a project throughout the book. You will learn to model parts, create assemblies, run simulations and even create animations of your robot design.

No previous experience with Computer Aided Design (CAD) is needed since this book starts at an introductory level. The author begins by getting you familiar with the SOLIDWORKS interface and its basic tools right away. You will start by learning to model simple robot parts and before long you will graduate to creating more complex parts and multi-view drawings.

Along the way you will learn the fundamentals of parametric modeling through the use of geometric constraints and relationships. You will also become familiar with many of the powerful tools and commands that enable you to easily construct complex features in your models. Also included is coverage of gears, gear trains and spur gear creation using SolidWorks.

This book continues by examining the different mechanisms commonly used in walking robots. You will learn the basic types of planar four-bar linkages commonly used in mechanical designs and how to use the GeoGebra Dynamic Geometry software to simulate and analyze 2D linkages. Using the knowledge you gained about linkages and mechanism, you will learn how to modify your robot and change its behavior by modifying or creating new parts.

In the final chapter of this book you learn how to combine all the robot parts into assemblies and then run motion analysis. You will finish off your project by creating 3D animations of your robot in action.

There are many books that show you how to perform individual tasks with SOLIDWORKS, but this book takes you through an entire project and shows you the complete engineering process. By the end of this book you will have modeled and assembled nearly all the parts that make up the TAMIYA Mechanical Tiger and can start building your own robot.

Table of Contents

1. Introduction - Getting Started
2. Parametric Modeling Fundamentals
3. CSG Concepts and Model History Tree
4. Parametric Constraints Fundamentals
5. Pictorials and Sketching
6. Symmetrical Features and Part Drawings
7. Datum Features in Designs
8. Gears and SolidWorks Design Library
9. Advanced 3D Construction Tools
10. Planar Linkage Analysis using GeoGebra
11. Design Makes the Difference
12. Assembly Modeling and Motion Analysis

Index

 [Download Learning SOLIDWORKS 2016 ...pdf](#)

 [Read Online Learning SOLIDWORKS 2016 ...pdf](#)

Download and Read Free Online Learning SOLIDWORKS 2016 Randy Shih

From reader reviews:

Alberta Sanchez:

This Learning SOLIDWORKS 2016 book is just not ordinary book, you have after that it the world is in your hands. The benefit you obtain by reading this book is information inside this e-book incredible fresh, you will get info which is getting deeper anyone read a lot of information you will get. That Learning SOLIDWORKS 2016 without we comprehend teach the one who reading through it become critical in imagining and analyzing. Don't become worry Learning SOLIDWORKS 2016 can bring when you are and not make your handbag space or bookshelves' come to be full because you can have it in the lovely laptop even phone. This Learning SOLIDWORKS 2016 having excellent arrangement in word and layout, so you will not really feel uninterested in reading.

Lori Leavitt:

Spent a free time and energy to be fun activity to try and do! A lot of people spent their spare time with their family, or their particular friends. Usually they undertaking activity like watching television, likely to beach, or picnic inside the park. They actually doing ditto every week. Do you feel it? Would you like to something different to fill your own personal free time/ holiday? Could possibly be reading a book could be option to fill your cost-free time/ holiday. The first thing that you'll ask may be what kinds of book that you should read. If you want to try look for book, may be the reserve untitled Learning SOLIDWORKS 2016 can be great book to read. May be it might be best activity to you.

Myrtle Brown:

Your reading sixth sense will not betray an individual, why because this Learning SOLIDWORKS 2016 e-book written by well-known writer who really knows well how to make book that could be understand by anyone who read the book. Written in good manner for you, still dripping wet every ideas and publishing skill only for eliminate your personal hunger then you still doubt Learning SOLIDWORKS 2016 as good book not simply by the cover but also from the content. This is one guide that can break don't assess book by its handle, so do you still needing yet another sixth sense to pick this kind of!? Oh come on your reading sixth sense already alerted you so why you have to listening to one more sixth sense.

Olivia Cook:

Is it a person who having spare time then spend it whole day through watching television programs or just laying on the bed? Do you need something new? This Learning SOLIDWORKS 2016 can be the response, oh how comes? It's a book you know. You are so out of date, spending your extra time by reading in this completely new era is common not a nerd activity. So what these publications have than the others?

Download and Read Online Learning SOLIDWORKS 2016 Randy Shih #86B9ZQ7XTCO

Read Learning SOLIDWORKS 2016 by Randy Shih for online ebook

Learning SOLIDWORKS 2016 by Randy Shih Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Learning SOLIDWORKS 2016 by Randy Shih books to read online.

Online Learning SOLIDWORKS 2016 by Randy Shih ebook PDF download

Learning SOLIDWORKS 2016 by Randy Shih Doc

Learning SOLIDWORKS 2016 by Randy Shih Mobipocket

Learning SOLIDWORKS 2016 by Randy Shih EPub