



# Mechanics of Materials Labs with **SOLIDWORKS** Simulation 2015

*Huei-Huang Lee*

Download now

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

# Mechanics of Materials Labs with SOLIDWORKS Simulation 2015

*Huei-Huang Lee*

## **Mechanics of Materials Labs with SOLIDWORKS Simulation 2015** Huei-Huang Lee

This book is designed as a software-based lab book to complement a standard textbook in a mechanics of material course, which is usually taught at the undergraduate level. This book can also be used as an auxiliary workbook in a CAE or Finite Element Analysis course for undergraduate students. Each book comes with a disc containing video demonstrations, a quick introduction to SOLIDWORKS, and all the part files used in the book.

This textbook has been carefully developed with the understanding that CAE software has developed to a point that it can be used as a tool to aid students in learning engineering ideas, concepts and even formulas. These concepts are demonstrated in each section of this book. Using the graphics-based tools of SOLIDWORKS Simulation can help reduce the dependency on mathematics to teach these concepts substantially. The contents of this book have been written to match the contents of most mechanics of materials textbooks.

There are 14 chapters in this book. Each chapter is designed as one week's workload, consisting of 2 to 3 sections. Each section is designed for a student to follow the exact steps in that section and learn a concept or topic of mechanics of materials. Typically, each section takes 15-40 minutes to complete the exercises.

Each copy of this book comes with a disc containing videos that demonstrate the steps used in each section of the book, a 123 page introduction to Part and Assembly Modeling with SOLIDWORKS in PDF format, and all the files readers may need if they have any trouble. The concise introduction to SOLIDWORKS pdf is designed for those students who have no experience with SOLIDWORKS and want to feel more comfortable working on the exercises in this book. All of the same content is available for download on the book's companion website.

### **Table of Contents**

1. Stresses
2. Displacements
3. Strains
4. Stress-Strain Relations
5. Axial Loading
6. Torsion
7. Bending
8. Shear Stresses in Beams
9. Strain Energy
10. Failure Criteria
11. Trusses and Beams
12. Plane Problems
13. Plates and Shells
14. Buckling

 [\*\*Download\*\* Mechanics of Materials Labs with SOLIDWORKS Simula ...pdf](#)

 [\*\*Read Online\*\* Mechanics of Materials Labs with SOLIDWORKS Simu ...pdf](#)

## **Download and Read Free Online Mechanics of Materials Labs with SOLIDWORKS Simulation 2015**

**Huei-Huang Lee**

---

### **From reader reviews:**

#### **Derrick Robertson:**

The book Mechanics of Materials Labs with SOLIDWORKS Simulation 2015 can give more knowledge and also the precise product information about everything you want. So just why must we leave the best thing like a book Mechanics of Materials Labs with SOLIDWORKS Simulation 2015? A number of you have a different opinion about publication. But one aim that book can give many info for us. It is absolutely right. Right now, try to closer along with your book. Knowledge or data that you take for that, it is possible to give for each other; it is possible to share all of these. Book Mechanics of Materials Labs with SOLIDWORKS Simulation 2015 has simple shape however, you know: it has great and massive function for you. You can search the enormous world by start and read a book. So it is very wonderful.

#### **Lois Wiggins:**

The ability that you get from Mechanics of Materials Labs with SOLIDWORKS Simulation 2015 is the more deep you looking the information that hide inside the words the more you get considering reading it. It doesn't mean that this book is hard to understand but Mechanics of Materials Labs with SOLIDWORKS Simulation 2015 giving you buzz feeling of reading. The article writer conveys their point in certain way that can be understood by simply anyone who read this because the author of this book is well-known enough. That book also makes your own personal vocabulary increase well. Therefore it is easy to understand then can go to you, both in printed or e-book style are available. We propose you for having this particular Mechanics of Materials Labs with SOLIDWORKS Simulation 2015 instantly.

#### **April Brooks:**

Your reading 6th sense will not betray an individual, why because this Mechanics of Materials Labs with SOLIDWORKS Simulation 2015 book written by well-known writer who knows well how to make book that may be understand by anyone who have read the book. Written within good manner for you, leaking every ideas and publishing skill only for eliminate your hunger then you still uncertainty Mechanics of Materials Labs with SOLIDWORKS Simulation 2015 as good book not simply by the cover but also with the content. This is one guide that can break don't judge book by its cover, so do you still needing an additional sixth sense to pick this kind of!? Oh come on your reading sixth sense already told you so why you have to listening to a different sixth sense.

#### **Preston Garza:**

Reading a reserve make you to get more knowledge from it. You can take knowledge and information coming from a book. Book is composed or printed or descriptive from each source that will filled update of news. On this modern era like at this point, many ways to get information are available for an individual. From media social like newspaper, magazines, science book, encyclopedia, reference book, novel and comic. You can add your knowledge by that book. Are you hip to spend your spare time to open your book? Or just

looking for the Mechanics of Materials Labs with SOLIDWORKS Simulation 2015 when you desired it?

**Download and Read Online Mechanics of Materials Labs with  
SOLIDWORKS Simulation 2015 Huei-Huang Lee  
#Q7XVLCZPJGR**

## **Read Mechanics of Materials Labs with SOLIDWORKS Simulation 2015 by Huei-Huang Lee for online ebook**

Mechanics of Materials Labs with SOLIDWORKS Simulation 2015 by Huei-Huang Lee 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 Mechanics of Materials Labs with SOLIDWORKS Simulation 2015 by Huei-Huang Lee books to read online.

### **Online Mechanics of Materials Labs with SOLIDWORKS Simulation 2015 by Huei-Huang Lee ebook PDF download**

**Mechanics of Materials Labs with SOLIDWORKS Simulation 2015 by Huei-Huang Lee Doc**

**Mechanics of Materials Labs with SOLIDWORKS Simulation 2015 by Huei-Huang Lee Mobipocket**

**Mechanics of Materials Labs with SOLIDWORKS Simulation 2015 by Huei-Huang Lee EPub**