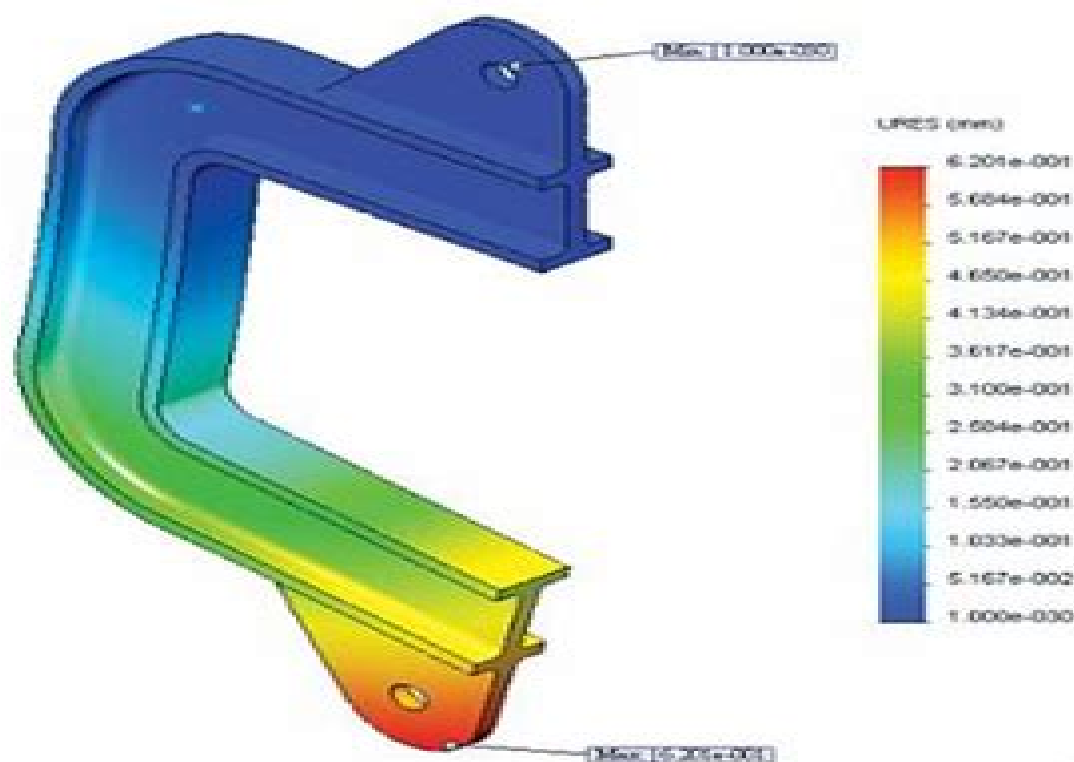


# Mechanics of Materials Labs

with SolidWorks® Simulation 2013



Huei-Huang Lee



# Mechanics Of Materials Labs With Solidworks Simulation 2013

**Archie Higdon**



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**Mechanics of Materials Labs with SolidWorks Simulation 2013** Huei-Huang Lee, 2013-10-23 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 in undergraduate courses 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 121 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     *Mechanics of Materials Labs with SolidWorks*

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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 [Mechanics of Materials Labs](#), 2014

**Mechanics of Materials Laboratory Course** Ghatu Subhash, Shannon Ridgeway, 2022-05-31. This book is designed to provide lecture notes, theory, and experimental design of major concepts typically taught in most Mechanics of Materials courses in a sophomore or junior-level Mechanical or Civil Engineering curriculum. Several essential concepts that engineers encounter in practice, such as statistical data treatment, uncertainty analysis, and Monte Carlo simulations, are incorporated into the experiments where applicable and will become integral to each laboratory assignment. Use of common strain stress measurement techniques, such as strain gages, are emphasized. Application of basic electrical circuits, such as Wheatstone bridge for strain measurement and use of load cells, accelerometers, etc., are employed in experiments. Stress analysis under commonly applied loads, such as axial loading, compression and tension, shear loading, flexural loading, cantilever, and four-point bending, impact loading, adhesive strength, creep, etc., are covered. LabVIEW software with relevant data acquisition (DAQ) system is used for all experiments. Two final projects, each spanning 2-3 weeks, are included: i) flexural loading with stress intensity factor determination and ii) dynamic stress wave propagation in a slender rod and determination of the stress-strain curves at high strain rates. The book provides theoretical concepts that are pertinent to each laboratory experiment and prelab assignment that a student should complete to prepare for the laboratory. Instructions for securing off-the-shelf components to design each experiment and their assembly with figures are provided. Calibration procedure is emphasized whenever students assemble components or design experiments. Detailed instructions for conducting experiments and table format for data gathering are provided. Each lab assignment has a set of questions to be answered upon completion of experiment and data analysis. Lecture notes provide detailed instructions on how to use LabVIEW software for data gathering during the experiment and conduct data analysis. [Soft Solids](#) Alan D. Freed, 2014-03-10. This textbook presents the physical principles pertinent to the mathematical modeling of soft materials used in engineering practice, including both man-made materials and biological tissues. It is intended for seniors and masters-level graduate students in engineering physics or applied mathematics. It will also be a valuable resource for researchers working in mechanics, biomechanics, and other fields where the mechanical response of soft solids is relevant. [Soft Solids: A Primer to the Theoretical Mechanics of Materials](#) is divided into two parts. Part I introduces the basic concepts needed to give both Eulerian and Lagrangian descriptions of the

mechanical response of soft solids Part II presents two distinct theories of elasticity and their associated theories of viscoelasticity Seven boundary value problems are studied over the course of the book each pertaining to an experiment used to characterize materials These problems are discussed at the end of each chapter giving students the opportunity to apply what they learned in the current chapter and to build upon the material in prior chapters Mechanics of Materials, 1927

Engineering Mechanics of Materials B.B. Muvdi, J.W. McNabb, 2012-12-06 4 2 Solid Circular Shafts Angle of Twist and Shearing Stresses 159 4 3 Hollow Circular Shafts Angle of Twist and Shearing Stresses 166 4 4 Principal Stresses and Strains Associated with Torsion 173 4 5 Analytical and Experimental Solutions for Torsion of Members of Noncircular Cross Sections 179 4 6 Shearing Stress Strain Properties 188 4 7 Computer Applications 195 5 Stresses in Beams 198 5 1 Introduction 198 5 2 Review of Properties of Areas 198 5 3 Flexural Stresses due to Symmetric Bending of Beams 211 5 4 Shear Stresses in Symmetrically Loaded Beams 230 5 5 Flexural Stresses due to Unsymmetric Bending of Beams 248 5 6 Computer Applications 258 Deflections of Beams 265 I 6 1 Introduction 265 6 2 Moment Curvature Relationship 266 6 3 Beam Deflections Two Successive Integrations 268 6 4 Derivatives of the Elastic Curve Equation and Their Physical Significance 280 6 5 Beam Deflections The Method of Superposition 290 6 6 Construction of Moment Diagrams by Cantilever Parts 299 6 7 Beam Deflections The Area Moment Method 302 6 8 Beam Deflections Singularity Functions 319 6 9 Beam Deflections Castigliano's Second Theorem 324 6 10 Computer Applications 332 7 Combined Stresses and Theories of Failure 336 7 1 Introduction 336 7 2 Axial and Torsional Stresses 336 Axial and Flexural Stresses 342 7 3 Torsional and Flexural Stresses 352 7 4 7 5 Torsional Flexural and Axial Stresses 358 7 6 Theories of Failure 365 Computer Applications 378 7

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