

Introduction To Mechanical Engineering 3rd Edition Solutions

Offering a broad-based review of the factors affecting the design, assembly and behaviour of bolted joints and their components in all industries, this work details various assembly options as well as specific failure modes and strategies for their avoidance. This edition features material on: the contact stresses between bolt head or nut face and the joint; thread forms, series and classes; the stiffness of raised face flange

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joints; and more.

This updated second edition broadens the explanation of rotational kinematics and dynamics – the most important aspect of rigid body motion in three-dimensional space and a topic of much greater complexity than linear motion. It expands treatment of vector and matrix, and includes quaternion operations to describe and analyze rigid body motion which are found in robot control, trajectory planning, 3D vision system calibration, and hand-eye coordination of robots in assembly work, etc. It features updated treatments of concepts in all chapters and case studies.

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The textbook retains its comprehensiveness in coverage and compactness in size, which make it easily accessible to the readers from multidisciplinary areas who want to grasp the key concepts of rigid body mechanics which are usually scattered in multiple volumes of traditional textbooks. Theoretical concepts are explained through examples taken from across engineering disciplines and links to applications and more advanced courses (e.g. industrial robotics) are provided. Ideal for students and practitioners, this book provides readers with a clear path to understanding rigid body mechanics and its

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significance in numerous sub-fields of mechanical engineering and related areas. The book retains its strong conceptual approach, clearly examining the mathematical underpinnings of FEM, and providing a general approach of engineering application areas. Known for its detailed, carefully selected example problems and extensive selection of homework problems, the author has comprehensively covered a wide range of engineering areas making the book appropriate for all engineering majors, and underscores the wide range of use FEM has in the professional world

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An Introduction to Mechanical Engineering
Cengage Learning

With an Introduction to Micromechanics
Third Edition

An Introduction to Fluid Mechanics and Heat Transfer

Design of Machinery

Newnes Mechanical Engineer's Pocket Book

This textbook fosters information exchange and discussion on all aspects of introductory matters of modern mechanical engineering from a number of perspectives including: mechanical engineering as a profession, materials and manufacturing processes, machining and machine tools, tribology and surface

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engineering, solid mechanics, applied and computational mechanics, mechanical design, mechatronics and robotics, fluid mechanics and heat transfer, renewable energies, biomechanics, nanoengineering and nanomechanics. At the end of each chapter, a list of 10 questions (and answers) is provided.

Alan Darbyshire's best-selling text book provides five-star high quality content to a potential audience of 13,000 engineering students. It explains the most popular specialist units of the Mechanical Engineering, Manufacturing Engineering and Operations & Maintenance Engineering pathways of the new 2010 BTEC National Engineering syllabus.

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This challenging textbook also features contributions from specialist lecturers, ensuring that no stone is left unturned. Two extra new downloadable chapters will also be available: Principles and Applications of Fluid Mechanics and Principles and Applicatio.

This work serves as a readable overview of the various aspects of the engineering professions. The first three chapters present a brief history of engineering and a survey of engineering career paths, then address the ethical and legal responsibilities of the profession, including the role of engineering societies, and registration and licensing of engineers. Chapters 4 through 7 discuss the creative aspects of engineering, design methods, written and oral

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communication, common mathematics used in engineering, and data handling. Chapters 8 and 9 comprise elementary treatments of engineering mechanics and electronics, supported by illustrative examples of problems and solutions. Chapter 10 briefly describes the types, components, and operation of computers, and includes brief treatments of computer languages and programming. The final chapter presents a case study of the Challenger space shuttle accident.

First published in 1975 as the third edition of a 1957 original, this book presents the fundamental ideas of fluid flow, viscosity, heat conduction, diffusion, the energy and momentum principles, and the method of

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dimensional analysis. These ideas are subsequently developed in terms of their important practical applications, such as flow in pipes and channels, pumps, compressors and heat exchangers. Later chapters deal with the equation of fluid motion, turbulence and the general equations of forced convection. The final section discusses special problems in process engineering, including compressible flow in pipes, solid particles in fluid flow, flow through packed beds, condensation and evaporation. This book will be of value to anyone with an interest the wider applications of fluid mechanics and heat transfer.

An Introduction to Mechanical Engineering: Part 1

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*An Introduction to the Finite Element Method
Mechanical Engineering Principles*

An Introduction to Engineering and Design

*Instructor Solutions Manual for Wickert/Lewis' an
Introduction to Mechanical Engineering, 3rd*

An Introduction to Mechanical Engineering is an essential text for all first-year undergraduate students as well as those studying for foundation degrees and HNDs. The text gives a thorough grounding in the following core engineering topics: thermodynamics,

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fluid mechanics, solid mechanics, dynamics, electricals and electronics, and materials scien

This textbook is intended for students who are in the first or second year of a typical college or university program in mechanical engineering or a closely related field. Throughout the following chapters, I have attempted to balance the treatments of technical problem-solving skills, engineering principles and analysis with numerous worked

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examples. Practice exercises are also included for you to test your understanding of each topic treated in the book. The book begins with scalar and vector quantities in Chapter 1. In Chapter 2 you will study dynamics. You will learn rectilinear motion of particles, basic equations of motion, displacement, speed, velocity, acceleration, torque, Newton's laws of motion, principles of conservation of energy, momentum and different types of forces. You will also be

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introduced to the concept of work, energy and power. In Chapter 3, we will return to statics. We will look at moments and frictional forces. You will learn the laws of Friction, friction on an inclined plane, tractive resistance, and application of friction to brakes and bearings. In Chapter 4, we will move on to circular motion. You will learn about motion in a circle and centripetal force with worked examples. In Chapter 5, you will study mechanical oscillations. You

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will learn simple harmonic motion, damped oscillation, forced oscillation and resonance. the principles of machine, such as mechanical advantage, velocity ratio (speed ratio) and efficiency. You will learn with several worked examples application of machines, such as the inclined plane, screw jack, wheel and axle, transmission of pressure in hydraulic press, gear trains, the worm wheel, belt tension and belt slip. In Chapter 6, we will look at the principles

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of machine, such as mechanical advantage, velocity ratio (speed ratio) and efficiency. You will learn with worked examples application of machines, such as the inclined plane, screw jack, wheel and axle, transmission of pressure in hydraulic press, gear trains, the worm wheel, belt tension and belt slip. Chapter 7 is all about fluid at rest. We will look at pressure at a depth, pressure measuring instruments, atmospheric pressure, pressure gauges, surface tension and

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Archimedes' principle with worked examples. Chapter 8 is dedicated to fluid dynamics. We will look at properties of fluid such as density, viscosity, turbulent flow, Bernoulli's equation and momentum of fluid with worked examples. In Chapter 9, you will study energy and its uses, and different sources of energy, such as solar, wind, water and biofuels. You will also learn about thermal power station, hydroelectric power station, and so on. In

Chapter 10, we will look at a few more complex worked examples that cover all the topics discussed in the previous chapters. This will give you more problem-solving and analytical skills. Furthermore, you will learn some of the calculations and estimates or approximations that mechanical engineers can perform as they solve technical problems and communicate their results. For mechanical engineers to accomplish their jobs better and

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faster, they combine science, mathematics, computer-aided engineering tools, hands-on skills and experience. Finally, after studying this book, you will not be an expert in mechanical engineering. That is not my intention of writing this book, and it should not be yours for reading it. If my objective has been met, however, you will set in place a solid foundation of problem-solving and analytical skills, which just might form the basis for your own future

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contributions to the mechanical engineering profession.

Guide to RRB Junior Engineer Stage II Civil & Allied Engineering 3rd Edition covers all the 5 sections including the Technical Ability Section in detail. • The book covers the complete syllabus as prescribed in the latest notification. • The book is divided into 5 sections which are further divided into chapters which contains theory explaining the concepts involved followed by Practice Exercises. •

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The Technical section is divided into 13 chapters. • The book provides the Past 2015 & 2014 Solved questions at the end of each section. • The book is also very useful for the Section Engineering Exam. Winner in its first edition of the Best New Undergraduate Textbook by the Professional and Scholarly Publishing Division of the American Association of Publishers (AAP), Kosky, et al is the first text offering an introduction to the major engineering fields, and the engineering

design process, with an interdisciplinary case study approach. It introduces the fundamental physical, chemical and material bases for all engineering work and presents the engineering design process using examples and hands-on projects. Organized in two parts to cover both the concepts and practice of engineering: Part I, Minds On, introduces the fundamental physical, chemical and material bases for all engineering work while Part II, Hands

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On, provides opportunity to do design projects An Engineering Ethics Decision Matrix is introduced in Chapter 1 and used throughout the book to pose ethical challenges and explore ethical decision-making in an engineering context Lists of "Top Engineering Achievements" and "Top Engineering Challenges" help put the material in context and show engineering as a vibrant discipline involved in solving societal problems New to this edition: Additional discussions on

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what engineers do, and the distinctions between engineers, technicians, and managers (Chapter 1) New coverage of Renewable Energy and Environmental Engineering helps emphasize the emerging interest in Sustainable Engineering New discussions of Six Sigma in the Design section, and expanded material on writing technical reports Re-organized and updated chapters in Part I to more closely align with specific engineering disciplines new

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end of chapter excercises throughout the book

Basics of Fluid Mechanics

A Concise Introduction to Mechanics of Rigid Bodies

Springer Handbook of Mechanical Engineering

Introduction to Optimum Design

An Introduction for Mechanical Engineers

This is a simple, concise, and useful book, explaining MATLAB for freshmen in

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engineering. MATLAB is presently a globally available standard computational tool for engineers and scientists. The terminology, syntax, and the use of the programming language are well defined and the organization of the material makes it easy to locate information and navigate through the textbook. This new text emphasizes that students do not need to write loops to solve many problems. The Matlab "find" command with its relational and logical operators can be used instead of loops in many cases. This was mentioned

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in Palm's previous MATLAB texts, but receives more emphasis in this MATLAB 6 edition, starting with Chapter 1, and re-emphasized in Chapter 4.

This practical, user-friendly reference book of common mechanical engineering concepts is geared toward makers who don't have (or want) an engineering degree but need to know the essentials of basic mechanical elements to successfully accomplish their personal projects. The book provides practical mechanical engineering information (supplemented with

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the applicable math, science, physics, and engineering theory) without being boring like a typical textbook. Most chapters contain at least one hands-on, fully illustrated, step-by-step project to demonstrate the topic being discussed and requires only common, inexpensive, easily sourced materials and tools. Some projects also provide alternative materials and tools and processes to align with the reader's individual preferences, skills, tools, and materials-at-hand. Linked together via the authors' overarching

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project -- building a kid-sized tank -- the chapters describe the thinking behind each mechanism and then expands the discussions to similar mechanical concepts in other applications. Written with humor, a bit of irreverence, and entertaining personal insights and first-hand experiences, the book presents complex concepts in an uncomplicated way.

Highlights include: Provides mechanical engineering information that includes math, science, physics and engineering theory without being a textbook Contains

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hands-on projects in each chapter that require common, inexpensive, easily sourced materials and tools All hands-on projects are fully illustrated with step-by-step instructions Some hands-on projects provide alternative materials and tools/processes to align with the reader's individual preferences, skills, tools and materials-at-hand Includes real-world insights from the authors like tips and tricks ("Staying on Track") and fail moments ("Lost Track!") Many chapters contain a section ("Tracking Further")

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that dives deeper into the chapter subject, for those readers that are interested in more details of the topic Builds on two related Make: projects to link and illustrate all the chapter topics and bring individual concepts together into one system Furnishes an accompanying website that offers further information, illustrations, projects, discussion boards, videos, animations, patterns, drawings, etc. Learn to effectively use professional mechanical engineering principles in your projects, without

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having to graduate from engineering school!

Specifically designed as an introduction to the exciting world of engineering, ENGINEERING FUNDAMENTALS: AN INTRODUCTION TO ENGINEERING encourages students to become engineers and prepares them with a solid foundation in the fundamental principles and physical laws. The book begins with a discovery of what engineers do as well as an inside look into the various areas of specialization. An explanation on good study habits and what

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it takes to succeed is included as well as an introduction to design and problem solving, communication, and ethics. Once this foundation is established, the book moves on to the basic physical concepts and laws that students will encounter regularly. The framework of this text teaches students that engineers apply physical and chemical laws and principles as well as mathematics to design, test, and supervise the production of millions of parts, products, and services that people use every day. By gaining problem

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solving skills and an understanding of fundamental principles, students are on their way to becoming analytical, detail-oriented, and creative engineers.

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"Mechanical Engineering Principles offers a student-friendly introduction to core engineering topics that does not assume any previous background in engineering studies, and as such can act as a core

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textbook for several engineering courses.

Bird and Ross introduce mechanical principles and technology through examples and applications rather than theory. This approach enables students to develop a sound understanding of the engineering principles and their use in practice.

Theoretical concepts are supported by over 600 problems and 400 worked answers. The new edition will match up to the latest BTEC National specifications and can also be used on mechanical engineering courses from Levels 2 to 4"--

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Introduction to Engineering

An Introduction to the Mechanics of Solids

Guide to RRB Junior Engineer Stage II

Mechanical & Allied Engineering 3rd Edition

An Introduction to the Design and Behavior of Bolted Joints, Revised and Expanded

Introduction To Mechanical Engineering 3rd Edition

Under the direction of John Enderle, Susan Blanchard and Joe Bronzino, leaders in the field have contributed chapters on the most relevant subjects for biomedical engineering students. These chapters coincide with

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courses offered in all biomedical engineering programs so that it can be used at different levels for a variety of courses of this evolving field. Introduction to Biomedical Engineering, Second Edition provides a historical perspective of the major developments in the biomedical field. Also contained within are the fundamental principles underlying biomedical engineering design, analysis, and modeling procedures. The numerous examples, drill problems and exercises are used to reinforce concepts and develop problem-solving skills making this book an invaluable tool for all biomedical students and engineers. New to this edition: Computational Biology, Medical Imaging, Genomics and

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Bioinformatics. * 60% update from first edition to reflect the developing field of biomedical engineering * New chapters on Computational Biology, Medical Imaging, Genomics, and Bioinformatics * Companion site: <http://intro-bme-book.bme.uconn.edu/> * MATLAB and SIMULINK software used throughout to model and simulate dynamic systems * Numerous self-study homework problems and thorough cross-referencing for easy use

This resource covers all areas of interest for the practicing engineer as well as for the student at various levels and educational institutions. It features the work of authors from all over the world who have contributed

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their expertise and support the globally working engineer in finding a solution for today's mechanical engineering problems. Each subject is discussed in detail and supported by numerous figures and tables.

- self-contained and well illustrated - complete and comprehensive derivation of mechanical/mathematical results with emphasis on issues of practical importance
- combines classical subjects of fracture mechanics with modern topics such as microheterogeneous materials, piezoelectric materials, thin films, damage - mechanically and mathematically clear and complete derivations of results

This text provides information on the design of

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machinery. It presents vector mathematical and matrix solution methods for analysis of both kinetic and dynamic analysis topics, and emphasizes the use of computer-aided engineering as an approach to the design and analysis of engineering problems. The author aims to convey the art of the design process in order to prepare students to successfully tackle genuine engineering problems encountered in practice. The book also emphasizes the synthesis and design aspects of the subject with analytical synthesis of linkages covered and cam design is given a thorough and practical treatment.

An Introduction to Mechanical Engineering

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An Introduction to Mechanical Engineering, SI Edition
Part 1

Introduction to MATLAB 6 for Engineers

The Engineering Design Process

AN INTRODUCTION TO MECHANICAL ENGINEERING introduces students to the ever-emerging field of mechanical engineering, giving an appreciation for how engineers design the hardware that builds and improves societies all around the world. Intended for students in their first or second year of a typical college or university program in mechanical engineering or a closely

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related field, the text balances the treatments of technical problem-solving skills, design, engineering analysis, and modern technology. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Newnes Mechanical Engineer's Pocket Book is an easy to use pocket book intended to aid mechanical engineers engaged in design and manufacture and others who require a quick, day-to-day reference for useful workshop information. The book is a

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compilation of useful data, providing abstracts of many technical materials in various technical areas. The text is divided into five main parts: Engineering Mathematics and Science, Engineering Design Data, Engineering Materials, Computer Aided Engineering, and Cutting Tools. These main sections are further subdivided into topic areas that discuss such topics as engineering mathematics, power transmission and fasteners, mechanical properties, and polymeric materials. Mechanical engineers and those

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into mechanical design and shop work will find the book very useful.

Written for introductory courses in engineering design, this text illustrates conceptual design methods and project management tools through descriptions, examples, and case studies.

This classic describes and illustrates basic theory, with a detailed explanation of discrete wavelet transforms. Suitable for upper-level undergraduates, it is also a practical resource for professionals.

Multidisciplinary Engineering

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Fracture Mechanics

Engineering Design

Exploring Engineering

A Hands-On Guide to Designing and Making Physical Things

An Introduction to Mechanical Engineering is an essential text for all first-year undergraduate students as well as those studying for foundation degrees and HNDs. The text gives a thorough grounding in the following core engineering topics: thermodynamics, fluid mechanics, solid mechanics, dynamics, electricals and electronics, and materials science. As well as

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mechanical engineers, the text will be highly relevant to civil, automotive, aeronautical/aerospace and general engineering students. The text is written by an experienced team of first-year lecturers at the internationally renowned University of Nottingham. The material in this book has full student and lecturer support on an accompanying website at <http://cw.tandf.co.uk/mechanicalengineering/>, which includes: worked examples of exam-style questions multiple-choice self-assessment revision guides. Introduction to Optimum Design, Third Edition describes an organized approach to engineering design

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optimization in a rigorous yet simplified manner. It illustrates various concepts and procedures with simple examples and demonstrates their applicability to engineering design problems. Formulation of a design problem as an optimization problem is emphasized and illustrated throughout the text. Excel and MATLAB® are featured as learning and teaching aids. Basic concepts of optimality conditions and numerical methods are described with simple and practical examples, making the material highly teachable and learnable Includes applications of optimization methods for structural, mechanical,

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aerospace, and industrial engineering problems
Introduction to MATLAB Optimization Toolbox
Practical design examples introduce students to the use of optimization methods early in the book
New example problems throughout the text are enhanced with detailed illustrations
Optimum design with Excel Solver has been expanded into a full chapter
New chapter on several advanced optimum design topics serves the needs of instructors who teach more advanced courses
Suitable for those interested in exploring various fields of engineering and learning how engineers work

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to solve problems, this title explores the world of engineering by introducing the reader to what engineers do, the fundamental principles that form the basis of their work, and how they apply that knowledge within a structured design process.

This book is also available through the Introductory Engineering Custom Publishing System. If you are interested in creating a course-pack that includes chapters from this book, you can get further information by calling 212-850-6272 or sending email inquiries to engineer&atsign;jwiley.com. Examines the roots of engineering through its modern

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development. Describes functions and career paths for various branches of engineering, professional responsibilities, ethics, purpose and importance of engineering societies. Discusses engineering design methods along with techniques commonly used to solve problems. Provides recommended procedures for handling engineering data. Includes two case studies, one of which deals with the circumstances and events leading to the space shuttle Challenger accident.

An Introduction to the Synthesis and Analysis of Mechanisms and Machines

With Applications in Chemical and Mechanical

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Process Engineering

Modern Graphics Communication

Introduction to Biomedical Engineering

The Beginner's Guide to Engineering

AN INTRODUCTION TO MECHANICAL ENGINEERING, 4E introduces readers to today's ever-emerging field of mechanical engineering as it instills an appreciation for how engineers design hardware that builds and improves societies around the world. This book is ideal for those completing their first or second year in a college or university's mechanical engineering program. It is also useful for those studying a closely related field. The authors effectively balance timely treatments of technical problem-solving skills, design, engineering analysis, and modern technology to

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provide the solid mechanical engineering foundation readers need for future success. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

A broad, yet concise, introduction to the field of engineering for undergraduate students. Designed for the beginning student, this text covers the history of engineering, career paths for engineers, issues of professional responsibility and ethics, and critical engineering skills like problem solving and communication.

Includes two case studies, one of which deals with the circumstances and events leading to the space shuttle Challenger accident. A brief, paperback text, this title can be used in conjunction with other texts to provide a solid foundation for the introductory engineering course.

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This is a clear, comprehensive, full-color introduction and reference for students and professionals who are creating engineering drawings and graphics with CAD software or by hand. It provides excellent technical detail and motivating real-world examples, illuminating theory with a colorful, highly-visual format complemented with concise text. Designed for busy, visually-oriented learners, this guide expands on well-tested material, fully updated for the latest ASME standards, materials, industries and production processes. Its up-to-date examples range from mechanical, plastic, and sheet metal drawings to modern techniques for civil engineering, architecture, and rapid prototyping. Throughout, clear, easy, step-by-step descriptions teach essential sketching and visualization techniques, including the use of 3D and 2D CAD. All color visuals are tightly integrated with text to

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promote rapid mastery. Colorful models and animations on a companion website bring the material to life, and hands-on projects and tear-out worksheets make this guide ideal both for learning and for ongoing reference.

The Beginner's Guide to Engineering series is designed to provide a very simple, non-technical introduction to the fields of engineering for people with no experience in the fields. Each book in the series focuses on introducing the reader to the various concepts in the fields of engineering conceptually rather than mathematically.

These books are a great resource for high school students that are considering majoring in one of the engineering fields, or for anyone else that is curious about engineering but has no background in the field. Books in the series: 1. The Beginner's Guide to Engineering: Chemical Engineering 2. The Beginner's Guide to Engineering:

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Computer Engineering 3. The Beginner's Guide to Engineering:
Electrical Engineering 4. The Beginner's Guide to Engineering:
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Engineering Fundamentals: An Introduction to Engineering, SI
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