

# Engineering Fundamentals An Introduction To Engineering

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Accompanys: 9781439062081 .

NUCLEAR ENGINEERING FUNDAMENTALS is the most modern, up-to-date, and reader friendly nuclear engineering textbook on the market today. It provides a thoroughly modern alternative to classical nuclear engineering textbooks that have not been updated over the last 20 years. Printed in full color, it conveys a sense of awe and wonder to anyone interested in the field of nuclear energy. It discusses nuclear reactor design, nuclear fuel cycles, reactor thermal-hydraulics, reactor operation, reactor safety, radiation detection and protection, and the interaction of radiation with matter. It presents an in-depth introduction to the science of nuclear power, nuclear energy production, the nuclear chain reaction, nuclear cross sections, radioactivity, and radiation transport. All major types of reactors are introduced and discussed, and the role of internet tools in their analysis and design is explored. Reactor safety and reactor containment systems are explored as well. To convey the evolution of nuclear science

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and engineering, historical figures and their contributions to evolution of the nuclear power industry are explored. Numerous examples are provided throughout the text, and are brought to life through life-like portraits, photographs, and colorful illustrations. The text follows a well-structured pedagogical approach, and provides a wide range of student learning features not available in other textbooks including useful equations, numerous worked examples, and lists of key web resources. As a bonus, a complete Solutions Manual and .PDF slides of all figures are available to qualified instructors who adopt the text. More than any other fundamentals book in a generation, it is student-friendly, and truly impressive in its design and its scope. It can be used for a one semester, a two semester, or a three semester course in the fundamentals of nuclear power. It can also serve as a great reference book for practicing nuclear scientists and engineers. To date, it has achieved the highest overall satisfaction of any mainstream nuclear engineering textbook available on the market today.

Engineering Fundamentals: An Introduction to Engineering Cengage Learning  
Heat Transfer Engineering: Fundamentals and Techniques reviews the core mechanisms of heat transfer and provides modern methods to solve practical problems encountered by working practitioners, with a particular focus on developing engagement and motivation. The book reviews fundamental concepts in conduction, forced convection, free convection, boiling, condensation, heat exchangers and mass transfer succinctly and without unnecessary exposition. Throughout, copious examples

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drawn from current industrial practice are examined with an emphasis on problem-solving for interest and insight rather than the procedural approaches often adopted in courses. The book contains numerous important solved and unsolved problems, utilizing modern tools and computational sources wherever relevant. A subsection on common issues and recent advances is presented in each chapter, encouraging the reader to explore a greater diversity of problems. Reveals physical solutions alongside their application in practical problems, with an aim of generating interest from reality rather than dry exposition Reviews pertinent, contemporary computational tools, including emerging topics such as machine learning Describes the complexity of modern heat transfer in an engaging and conversational style, greatly adding to the uniqueness and accessibility of the book

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Many, in their quest for knowledge in engineering, find typical textbooks intimidating. Perhaps due to an extensive amount of physics theory, an overwhelming barrage of math, and not enough practical application of the engineering principles, laws, and equations. Therein lies the difference between this text and those voluminous and

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daunting conventional university engineering textbooks. This text leads the reader into more complex and abstract content after explaining the electrical engineering concepts and principles in an easy to understand fashion, supported by analogies borrowed from day-to-day examples and other engineering disciplines. Many complex electrical engineering concepts, for example, power factor, are examined from multiple perspectives, aided by diagrams, illustrations, and examples that the reader can easily relate to. Throughout this book, the reader will gain a clear and strong grasp of electrical engineering fundamentals, and a better understanding of electrical engineering terms, concepts, principles, laws, analytical techniques, solution strategies, and computational techniques. The reader will also develop the ability to communicate with professional electrical engineers, controls engineers, and electricians on their "wavelength" with greater confidence. Study of this book can help develop skills and preparation necessary for succeeding in the electrical engineering portion of various certification and licensure exams, including Fundamentals of Engineering (FE), Professional Engineering (PE), Certified Energy Manager (CEM), and many other trade certification tests. This text can serve as a compact and simplified electrical engineering desk reference. This book provides a brief introduction to the NEC®, the Arc-Flash Code, and a better understanding of electrical energy and associated cost. If you need to gain a better understanding of myriad battery alternatives available in the market, their strengths and weaknesses, and how batteries compare with capacitors as energy

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storage devices, this book can be a starting point. This book is ideal for engineers, engineering students, facility managers, engineering managers, program/project managers, and other executives who do not possess a current working knowledge of electrical engineering. Because of the simple explanations, analogies, and practical examples employed by the author, this book serves as an excellent learning tool for non-engineers, technical writers, attorneys, electrical sales professionals, energy professionals, electrical equipment procurement agents, construction managers, facility managers, and maintenance managers.

Fundamentals of Ground Engineering is an unconventional study guide that serves up the key principles, theories, definitions, and analyses of geotechnical engineering in bite-sized pieces. This book contains brief—one or two pages per topic—snippets of information covering the geotechnical engineering component of a typical undergraduate course in civil engineering as well as some topics for advanced courses. Written in note form, it summarizes the basic principles and theories of soil mechanics, the procedures for creating a geotechnical model, and the common analyses for slopes, foundations, and walls. Puts the mechanics into soil mechanics Presents information that is simple to use—structured around diagrams and formulae with few words Explains detailed analyses given in the longer standard texts A short, easily read summary of the basic theories and routine analyses of ground engineering, Fundamentals of Ground Engineering incorporates plenty of diagrams and concentrated data without going into

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detailed explanations. This text is an ideal reference for students, practicing civil engineers—senior and junior—and by engineering geologists.

While the ASCE Body of Knowledge (BOK2) is the codified source for all technical and non-technical information necessary for those seeking to attain licensure in civil engineering, recent graduates have notoriously been lacking in the non-technical aspects even as they excel in the technical. *Fundamentals of Civil Engineering: An Introduction to the ASCE Body of Knowledge* addresses this shortfall and helps budding engineers develop the knowledge, skills, and attitudes suggested and implied by the BOK2. Written as a resource for all of the non-technical outcomes not specifically covered in the BOK2, it details fundamental aspects of fourteen outcomes addressed in the second edition of the ASCE Body of Knowledge and encourages a broader perspective and understanding of the role of civil engineers in society as well as the reciprocal influence between civil engineering and social evolution. With discussion questions and group activities at the end of each chapter, topics covered include humanities and social sciences, experimentation, sustainability, contemporary issues and historical perspectives, risk and uncertainty, communication, public policy, globalization, leadership and teamwork, and professional and ethical responsibilities. Suitable for both current and former students in pursuit of further breadth and depth of knowledge and professional maturity, this primer promotes introspection, self-evaluation, and self-learning. It details those attitudes that are essential to the

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achievement of personal and professional success and advancement to positions of leadership, and encourages an appreciation of the human values that are fundamental to professional practice.

Gives students of automotive engineering a basic understanding of the principles involved with designing a vehicle and includes details of engines and transmissions, vehicle aerodynamics and computer modelling.

Pragmatic Electrical Engineering: Fundamentals introduces the fundamentals of the energy-delivery part of electrical systems. It begins with a study of basic electrical circuits and then focuses on electrical power. Three-phase power systems, transformers, induction motors, and magnetics are the major topics. All of the material in the text is illustrated with completely-worked examples to guide the student to a better understanding of the topics. This short lecture book will be of use at any level of engineering, not just electrical. Its goal is to provide the practicing engineer with a practical, applied look at the energy side of electrical systems. The author's "pragmatic" and applied style gives a unique and helpful "non-idealistic, practical, opinionated" introduction to the topic. Table of Contents: Basic Stuff / Power of the Sine / Three-Phase Power Systems / Transformers / Machines / Electromagnetics

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 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 solving skills and an understanding of fundamental principles, students are on their way to becoming analytical, detail-oriented, and creative engineers. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Forensic engineers often specialize in a particular area such as structures, fires, or accident reconstruction. However, the nature of the work often requires broad knowledge in the interrelated areas of physics, chemistry, biomechanics, and

engineering. Covering cases as varied as assessment of workplace accidents to the investigation of Halliburton

This edition of 'Micro Process Engineering' was originally published in the successful series 'Advanced Micro & Nanosystems'. Authors from leading industrial players and research institutions present a concise and didactical introduction to Micro Process Engineering, the combination of microtechnology and process engineering into a most promising and powerful tool for revolutionizing chemical processes and industrial mass production of bulk materials, fine chemicals, pharmaceuticals and many other products. The book takes the readers from the fundamentals of engineering methods, transport processes, and fluid dynamics to device conception, simulation and modelling, control interfaces and issues of modularity and compatibility. Fabrication strategies and techniques are examined next, focused on the fabrication of suitable microcomponents from various materials such as metals, polymers, silicon, ceramics and glass. The book concludes with actual applications and operational aspects of micro process systems, giving broad coverage to industrial efforts in America, Europe and Asia as well as laboratory equipment and education.

Created for all levels of students, this new text provides a thorough introduction

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to engineering. It explores the design process and covers most engineering disciplines. Engineering careers and their requirements are featured throughout the book.

This updated textbook provides a balanced, seamless treatment of both classic, analytic methods and contemporary, computer-based techniques for conceptualizing and designing a structure. New to the second edition are treatments of geometrically nonlinear analysis and limit analysis based on nonlinear inelastic analysis. Illustrative examples of nonlinear behavior generated with advanced software are included. The book fosters an intuitive understanding of structural behavior based on problem solving experience for students of civil engineering and architecture who have been exposed to the basic concepts of engineering mechanics and mechanics of materials. Distinct from other undergraduate textbooks, the authors of *Fundamentals of Structural Engineering, 2/e* embrace the notion that engineers reason about behavior using simple models and intuition they acquire through problem solving. The perspective adopted in this text therefore develops this type of intuition by presenting extensive, realistic problems and case studies together with computer simulation, allowing for rapid exploration of how a structure responds to changes in geometry and physical parameters. The integrated approach employed in *Fundamentals of*

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Structural Engineering, 2/e make it an ideal instructional resource for students and a comprehensive, authoritative reference for practitioners of civil and structural engineering.

Engineering Fundamentals is designed to meet the latest course requirements, and brings together the essential material from Roger Timings' previous engineering texts: Fundamentals of Mechanical Engineering, Fundamentals of Engineering, Basic Engineering Technology and General Engineering. A highly readable text is supported by numerous illustrations, learning objectives and exercises at the end of each chapter, making Engineering Fundamentals a complete student-focused course that is ideal for classroom, workshop and independent study.

"Covering virtually all areas of distribution engineering, this complete reference work examines the unique behavior of utilities and provides the practical knowledge necessary to solve real-world distribution problems. "

This book is a short introduction to the engineering principles of harnessing the vast potential of microorganisms, and animal and plant cells in making biochemical products. It was written for scientists who have no background in engineering, and for engineers with minimal background in biology. The overall subject dealt with is process, but the coverage goes beyond the process of biomanufacturing in the bioreactor, and extends to the factory of cell's biosynthetic machinery. Starting with an overview of biotechnology and organism, engineers

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are eased into biochemical reactions and life scientists are exposed to the technology of production using cells. Subsequent chapters allow engineers to be acquainted with biochemical pathways, while life scientist learn about stoichiometric and kinetic principles of reactions and cell growth. This leads to the coverage of reactors, oxygen transfer and scale up. Following three chapters on biomanufacturing of current and future importance, i.e. cell culture, stem cells and synthetic biology, the topic switches to product purification, first with a conceptual coverage of operations used in bioseparation, and then a more detailed analysis to provide a conceptual understanding of chromatography, the modern workhorse of bioseparation. Drawing on principles from engineering and life sciences, this book is for practitioners in biotechnology and bioengineering. The author has used the material within this book for a course for advanced students in both engineering and life sciences. To this end, problems are provided at the end of each chapter.

Fundamentals of Materials Engineering - A Basic Guide is a helpful textbook for readers learning the basics of materials science. This book covers important topics and fundamental concepts of materials engineering including crystal structure, imperfections, mechanical properties of materials, polymers, powder metallurgy, corrosion and composites. The authors have explained the concepts in an effective way and by using simple language for the benefit of a broad range of readers. This book is also beneficial to the students in engineering courses at B.Sc, M.Sc, and M.Tech. levels.

The Second Edition of this book includes a revision and an extension of its former version. The book is divided into three parts, namely: Introduction, The Aircraft, and Air Transportation, Airports, and Air Navigation. It also incorporates an appendix with somehow advanced

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mathematics and computer based exercises. The first part is divided in two chapters in which the student must achieve to understand the basic elements of atmospheric flight (ISA and planetary references) and the technology that apply to the aerospace sector, in particular with a specific comprehension of the elements of an aircraft. The second part focuses on the aircraft and it is divided in five chapters that introduce the student to aircraft aerodynamics (fluid mechanics, airfoils, wings, high-lift devices), aircraft materials and structures, aircraft propulsion, aircraft instruments and systems, and atmospheric flight mechanics (performances and stability and control). The third part is devoted to understand the global air transport system (covering both regulatory and economical frameworks), the airports, and the global air navigation system (its history, current status, and future development). The theoretical contents are illustrated with figures and complemented with some problems/exercises. The course is complemented by a practical approach. Students should be able to apply theoretical knowledge to solve practical cases using academic (but also industrial) software, such as Python and XFLR5. The course also includes a series of assignments to be completed individually or in groups. These tasks comprise an oral presentation, technical reports, scientific papers, problems, etc. The course is supplemented by scientific and industrial seminars, recommended readings, and a visit to an institution or industry related to the study and of interest to the students. All this documentation is not explicitly in the book but can be accessed online at the book's website [www.aerospaceengineering.es](http://www.aerospaceengineering.es). The slides of the course are also available at the book's website: <http://www.aerospaceengineering.es> Fundamentals of Aerospace Engineering is licensed under a Creative Commons Attribution-Share Alike (CC BY-SA) 3.0 License, and it is offered in open access both in "pdf" format. The document can

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be accessed and downloaded at the book's website. This licensing is aligned with a philosophy of sharing and spreading knowledge. Writing and revising over and over this book has been an exhausting, very time consuming activity. To acknowledge author's effort, a donation platform has been activated at the book's website.

This book is a contribution to the definition of a model based system engineering (MBSE) approach, designed to meet the objectives laid out by the INCOSE. After pointing out the complexity that jeopardizes a lot of system developments, the book examines fundamental aspects of systems under consideration. It goes on to address methodological issues and proposes a methodic approach of MBSE that provides, unlike current practices, systematic and integrated model-based engineering processes. An annex describes relevant features of the VHDL-AMS language supporting the methodological issues described in the book.

Focusing on the impact of engineering on society and the world, McCarthy details the development of the discipline, explains what makes an engineering mind, and shows how every aspect of our lives has been engineered: from gadgets to our national infrastructure. Long considered tinkerers, problem solvers, and visionaries, engineers hold the keys to our real and virtual future.

This important reference/text provides technologists with the basic information necessary to interact scientifically with molecular biologists and get involved in scaling up laboratory procedures and designing and constructing commercial plants. Requiring no previous training or experience in biology, Genetic Engineering Fundamentals explains the biological and chemical principles of recombinant DNA technology ... emphasizes techniques used to isolate and clone specific genes from bacteria, plants, and animals, and methods of scaling-up the

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formation of the gene product for commercial applications ... analyzes problems encountered in scaling-up the microprocessing of biochemical procedures ... includes an extensive glossary and numerous illustrations ... identifies other resource materials in the field ... and more. Presenting the fundamentals of biochemistry and molecular biology to workers and students in other fields, this state-of-the-art reference/text is essential reading for technologists in chemistry and engineering; biomedical, chemical, electrical and electronics, industrial, mechanical, manufacturing, design, plant, control, civil, genetic, and environmental engineers; chemists, botanists, and zoologists; and advanced undergraduate and graduate courses in engineering, biotechnology, and industrial microbiology.

The future presents society with enormous challenges on many fronts, such as energy, infrastructures in urban settings, mass migrations, mobility, climate, healthcare for an aging population, social security and safety. In the coming decennia, leaps in scientific discovery and innovations will be necessary in social, political, economic and technological fields.

Technology, the domain of engineers and engineering scientists, will be an essential component in making such innovations possible. Engineering is the social practice of conceiving, designing, implementing, producing and sustaining complex technological products, processes or systems. The complexity is often caused by the behaviour of the system development that changes with time that cannot be predicted in advance from its constitutive parts. This is especially true when human decisions play a key role in solving the problem. Solving complex systems requires a solid foundation in mathematics and the natural sciences, and an understanding of human nature. Therefore, the skills of the future engineers must extend over an array of fields. The book was born from the "Introduction to Engineering"

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courses given by the author in various universities. At that time the author was unable to find one text book, that covered all the subjects of the course. The book claims to fulfil this gap. Containing contributions from leading academic and industrial researchers, this book provides a much needed update of foam science research. The first section of the book presents an accessible summary of the theory and fundamentals of foams. This includes chapters on morphology, drainage, Ostwald ripening, coalescence, rheology, and pneumatic foams. The second section demonstrates how this theory is used in a wide range of industrial applications, including foam fractionation, froth flotation and foam mitigation. It includes chapters on suprafroths, flotation of oil sands, foams in enhancing petroleum recovery, Gas-liquid Mass Transfer in foam, foams in glass manufacturing, fire-fighting foam technology and consumer product foams. Key features: Foam fractionation is an exciting and emerging technology, starting to gain significant attention Discusses a vital topic for many industries, especially mineral processing, petroleum engineering, bioengineering, consumer products and food sector Links foam science theory to industrial applications, making it accessible to an engineering science audience Summarizes the latest developments in this rapidly progressing area of research Contains contributions from leading international researchers from academia and industry

Sound reinforcement is the increasing of the power of sound signals and reproducing them as acoustic signals. This book gives an introduction to the fundamentals of sound reinforcement engineering, and also explains how it relates to disciplines such as room acoustics. It discusses in detail the components and layout of sound reinforcement systems and gives examples and case studies of successfully installed systems.

Now in dynamic full color, *SI ENGINEERING FUNDAMENTALS: AN INTRODUCTION TO ENGINEERING, 5e* helps students develop the strong problem-solving skills and solid foundation in fundamental principles they will need to become analytical, detail-oriented, and creative engineers. The book opens with an overview of what engineers do, an inside glimpse of the various areas of specialization, and a straightforward look at what it takes to succeed. It then covers the basic physical concepts and laws that students will encounter on the job. Professional Profiles throughout the text highlight the work of practicing engineers from around the globe, tying in the fundamental principles and applying them to professional engineering. Using a flexible, modular format, the book demonstrates how 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. Important

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This book provides a fundamental and practical introduction to radio frequency and microwave engineering and physical aspects of wireless communication. In this book, the author addresses a wide range of radio-frequency and microwave topics with emphasis on physical aspects including EM and voltage waves, transmission lines, passive circuits, antennas, radio wave propagation. Up-to-date RF design tools like RF circuit simulation, EM simulation and computerized Smith charts, are used in various examples to demonstrate how these methods can be applied effectively in RF engineering practice. Design rules and working examples illustrate the theoretical parts. The examples are close to real world problems, so the reader can directly transfer the methods within the context of their own work. At the end of each chapter a list of problems is given in order to deepen the reader's understanding of the chapter material and practice the new competences. Solutions are available on the author's website. Key Features: Presents a wide range of RF topics with emphasis on physical aspects e.g. EM and voltage waves, transmission lines, passive circuits, antennas Uses various examples of modern RF tools that show how the methods can be applied productively in RF engineering practice Incorporates various design examples

using circuit and electromagnetic (EM) simulation software Discusses the propagation of waves: their representation, their effects, and their utilization in passive circuits and antenna structures Provides a list of problems at the end of each chapter Includes an accompanying website containing solutions to the problems ([http://www.fh-dortmund.de/gustrau\\_rf\\_textbook](http://www.fh-dortmund.de/gustrau_rf_textbook)) This will be an invaluable textbook for bachelor and masters students on electrical engineering courses (microwave engineering, basic circuit theory and electromagnetic fields, wireless communications). Early-stage RF practitioners, engineers (e.g. application engineer) working in this area will also find this book of interest. A 1998 beginner's guide to problem solving with computers - both a text for introductory-level engineering undergraduates and a self-study guide for practising engineers.

The fifth edition of "Engineering Fundamentals & Problem Solving" is written to motivate engineering students during their first year. A complete introduction to the engineering field, this text will help students develop the skills to solving open-ended problems in SI and customary units while presenting solutions in a logical manner. Eide introduces students to subject areas that are common to engineering disciplines that require the application of fundamental engineering concepts. For those instructors who desire a shorter text to complement other

application specific texts, McGraw-Hill offers customization through our Primis-Build a Book, or the BEST version of this text. Please see Eide's "Introduction to Engineering Design and Problem Solving," 2nd edition, from the BEST series. Power transfer for large systems depends on high system voltages. The basics of high voltage laboratory techniques and phenomena, together with the principles governing the design of high voltage insulation, are covered in this book for students, utility engineers, designers and operators of high voltage equipment. In this new edition the text has been entirely revised to reflect current practice. Major changes include coverage of the latest instrumentation, the use of electronegative gases such as sulfur hexafluoride, modern diagnostic techniques, and high voltage testing procedures with statistical approaches. A classic text on high voltage engineering Entirely revised to bring you up-to-date with current practice Benefit from expanded sections on testing and diagnostic techniques Known as the bible of biomedical engineering, The Biomedical Engineering Handbook, Fourth Edition, sets the standard against which all other references of this nature are measured. As such, it has served as a major resource for both skilled professionals and novices to biomedical engineering. Biomedical Engineering Fundamentals, the first volume of the handbook, presents material from respected scientists with diverse backgrounds in physiological systems,

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biomechanics, biomaterials, bioelectric phenomena, and neuroengineering. More than three dozen specific topics are examined, including cardiac biomechanics, the mechanics of blood vessels, cochlear mechanics, biodegradable biomaterials, soft tissue replacements, cellular biomechanics, neural engineering, electrical stimulation for paraplegia, and visual prostheses. The material is presented in a systematic manner and has been updated to reflect the latest applications and research findings.

Teaching text developed by U.S. Air Force Academy and designed as a first course emphasizes the universal variable formulation. Develops the basic two-body and n-body equations of motion; orbit determination; classical orbital elements, coordinate transformations; differential correction; more. Includes specialized applications to lunar and interplanetary flight, example problems, exercises. 1971 edition.

This text aims to expose students to the science of optics and optical engineering without the complications of advanced physics and mathematical theory.

This book provides fundamentals of Mechanical Engineering For The undergraduate students of all branches of engineering. The various topics of Mechanical Engineering that are discussed in the book are: \* Machine tool and fabrication process \* Thermodynamics, IC engines and steam turbines \*

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Hydraulic turbines and pumps \* Refrigeration and air-conditioning \* Power transmission methods and devices \* Stresses, strain, shear force and bending moment diagrams \* Numerical control machines. (NC and CNCs) \* Applied mechanics. A large number of worked out problems, exercises and MCQs are provided in all the chapters.

The field of environmental engineering is rapidly emerging into a mainstream engineering discipline. For a long time, environmental engineering has suffered from the lack of a well-defined identity. At times, the problems faced by environmental engineers require knowledge in many engineering fields, including chemical, civil, sanitary, and mechanical engineering. Increased demand for undergraduate training in environmental engineering has led to growth in the number of undergraduate programs offered. Fundamentals of Environmental Engineering provides an introductory approach that focuses on the basics of this growing field. This informative reference provides an introduction to environmental pollutants, basic engineering principles, dimensional analysis, physical chemistry, mass, and energy and component balances. It also explains the applications of these ideas to the understanding of key problems in air, water, and soil pollution.

Requirements engineering is the process of eliciting individual stakeholder

requirements and needs and developing them into detailed, agreed requirements documented and specified in such a way that they can serve as the basis for all other system development activities. In this textbook, Klaus Pohl provides a comprehensive and well-structured introduction to the fundamentals, principles, and techniques of requirements engineering. He presents approved techniques for eliciting, negotiating and documenting as well as validating, and managing requirements for software-intensive systems. The various aspects of the process and the techniques are illustrated using numerous examples based on his extensive teaching experience and his work in industrial collaborations. His presentation aims at professionals, students, and lecturers in systems and software engineering or business applications development. Professionals such as project managers, software architects, systems analysts, and software engineers will benefit in their daily work from the didactically well-presented combination of validated procedures and industrial experience. Students and lecturers will appreciate the comprehensive description of sound fundamentals, principles, and techniques, which is completed by a huge commented list of references for further reading. Lecturers will find additional teaching material on the book's website, [www.requirements-book.com](http://www.requirements-book.com).

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