

## Basic Engineering Concepts

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Basic Concepts McGraw-Hill Science/Engineering/Math

Textbook for junior and senior level majors in chemical engineering covering the field of biochemical engineering.

Basic Concepts of Electrical Engineering Craftsman Book Company

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.

**Investigation of Heat and Mass Transfer Rates** Amer Society of Mechanical

A logical, integrated and comprehensive coverage of both introductory and advanced topics in soil mechanics in an easy-to-understand style. Emphasis is placed on presenting fundamental behaviour before more advanced topics are introduced. The use of S.I. units throughout, and frequent references to current international codes of practice and refereed research papers, make the contents universally applicable. Written with the university student in mind and packed full of pedagogical features, this book provides an integrated and comprehensive coverage of both introductory and advanced topics in soil mechanics. It includes: worked examples to elucidate the technical content and facilitate self-learning a convenient structure (the book is divided into sections), enabling it to be used throughout second, third and fourth year undergraduate courses universally applicable contents through the use of SI units throughout, frequent references to current international codes of practice and refereed research papers new and advanced topics that extend beyond those in standard undergraduate courses. The perfect textbook for a range of courses on soils mechanics and also a very valuable resource for practising professional engineers.

**Basic Concepts of Electrical Engineering** Springer Science & Business Media

Intended for an introductory course in materials science or metallurgy for all engineering students, this text provides complete coverage of the subject. The emphasis is on basic concepts of structure/property/performance relations and on applications to a wide variety of engineering fields.

**Introduction to Food Engineering** Cengage Learning

Engineering education in K-12 classrooms is a small but growing phenomenon that may have implications for engineering and also for the other STEM subjects--science, technology, and mathematics. Specifically, engineering education may improve student learning and achievement in science and mathematics, increase awareness of engineering and the work of engineers, boost youth interest in pursuing engineering as a career, and increase the technological literacy of all students. The teaching of STEM subjects in U.S. schools must be improved in order to retain U.S. competitiveness in the global economy and to develop a workforce with the knowledge and skills to address technical and technological issues. Engineering in K-12 Education reviews the scope and impact of engineering education today and makes several recommendations to address curriculum, policy, and funding issues. The book also analyzes a number of K-12 engineering curricula in depth and discusses what is known from the cognitive sciences about how children learn engineering-related concepts and skills. Engineering in K-12 Education will serve as a reference for science, technology, engineering, and math educators, policy makers, employers, and others concerned about the development of the country's technical workforce. The book will also prove useful to educational researchers, cognitive scientists, advocates for greater public understanding of engineering, and those working to boost technological and scientific literacy.

**Introduction to Basic Concepts in Engineering: Student's Course Handbook** Springer Science & Business Media

Find the answers to your engineering questions with Core Engineering Concepts for Students and Professionals. This authoritative reference provides comprehensive coverage of thousands of engineering concepts in one convenient book, including topics covered in 4- and 5-year engineering degree programs and those encountered in practice. Core Engineering Concepts is a cross-disciplinary reference that can be used by engineers studying or practicing in any engineering field, including civil, mechanical, electrical, structural, environmental, industrial, and chemical engineering. Written for both students and practitioners by a professional engineer, it incorporates more than 30 years of engineering experience. "Core Engineering Concepts is a unique book. It's a blend of the most useful concepts taught in college and the most useful practical knowledge learned afterward."--Michael R. Lindeburg, PE The Go-To Reference for Engineering Students and Professionals- Covers the breadth of a 4-year engineering degree- Contains civil, mechanical, electrical, chemical, and industrial engineering subjects- Features 82 chapters covering thousands of engineering concepts- Contains more than 580 examples with step-by-step solutions- Presents over 3,700 essential engineering equations and formulas- References over 780 tables and 315 conversion factors in detailed appendices- Lists fully defined nomenclature for each chapter- Includes a comprehensive index Topics Covered- Atomic Theory- Biology- Chemistry- Circuits- Computer Programming- Dynamics- Engineering Licensure-

Engineering Management- Fluids- Heat Transfer- Material Science- Mathematics- Mechanics of Materials- Physical Representation- Physics- Statics- Systems Analysis- Thermodynamics

**For Adept High School Students** Createspace Independent Publishing Platform

Automobile or Automotive Engineering has gained recognition and importance ever since motor vehicles capable for transporting passengers has been in vogue. Now due to the rapid growth of auto component manufacturers and automobile industries, there is a great demand for Automobile Engineers. Automobile Engineering alias Automotive Engineering or Vehicle Engineering is one of the most challenging careers in the field of engineering with a wide scope. This branch deals with the designing, developing, manufacturing, testing and repairing and servicing automobiles such as cars, trucks, motorcycles, scooters etc & the related sub Engineering systems. For the perfect blend of manufacturing and designing automobiles, Automobile Engineering uses the features of different elements of Engineering such as mechanical, electrical, electronic, software and safety engineering. To become a proficient automobile engineer, specialized training is essential and it is a profession, which requires a lot of hard work, dedication, determination and commitment. The major task of an Automobile Engineer is the designing, developing, manufacturing and testing of vehicles from the concept stage to the production stage The automotive industry is one of the largest and most important industries in the world. Cars, buses, and other engine-based vehicles abound in every country on the planet, and it is continually evolving, with electric cars, hybrids, self-driving vehicles, and so on. Technologies that were once thought to be decades away are now on our roads right now. Engineers, technicians, and managers are constantly needed in the industry, and, often, they come from other areas of engineering, such as electrical engineering, process engineering, or chemical engineering. Introductory books like this one are very useful for engineers who are new to the industry and need a tutorial. Also valuable as a textbook for students, this introductory volume not only covers the basics of automotive engineering, but also the latest trends, such as self-driving vehicles, hybrids, and electric cars. Not only useful as an introduction to the science or a textbook, it can also serve as a valuable reference for technicians and engineers alike. The volume also goes into other subjects, such as maintenance and performance. Data has always been used in every company irrespective of its domain to improve the operational efficiency and performance of engines. This work deals with details of various automotive systems with focus on designing various components of these system to suit the working conditions on roads. Whether a textbook for the student, an introduction to the industry for the newly hired engineer, or a reference for the technician or veteran engineer, this volume is the perfect introduction to the science of automotive engineering.

**Basic Fundamentals to Advanced Concepts of Automobile Engineering** Mkuki na Nyota Publishers

The agent metaphor and the agent-based approach to systems design constitute a promising new paradigm for building complex distributed systems. However, until now, the majority of the agent-based applications available have been built by researchers who specialize in agent-based computing and distributed artificial intelligence. If agent-based computing is to become anything more than a niche technology practiced by the few, then the base of people who can successfully apply the approach needs to be broadened dramatically. A major step in this broadening endeavor is the development of methodologies for agent-oriented software engineering accessible to and attractive for professional software engineers in their daily work. Against this background, this book presents one of the first coherent attempts to develop such a methodology for a broad class of agent-based systems. The author provides a clear introduction to the key issues in the field of agent-oriented software engineering.

**Basic Engineering Technology** Pearson Education India

For Senior-level and graduate courses in Biochemical Engineering, and for programs in Agricultural and Biological Engineering or Bioengineering. This concise yet comprehensive text introduces the essential concepts of bioprocessing-internal structure and functions of different types of microorganisms, major metabolic pathways, enzymes, microbial genetics, kinetics and stoichiometry of growth and product information-to traditional chemical engineers and those in related disciplines. It explores the engineering principles necessary for bioprocess synthesis and design, and illustrates the application of these principles to modern biotechnology for production of pharmaceuticals and biologics, solution of environmental problems, production of commodities, and medical applications.

**Basic Concepts in Statics and Dynamics** Engineering Fundamentals: An Introduction to Engineering, SI Edition

Basic Engineering Technology covers various topics related to engineering, from safety procedures and movement of loads to measurement and dimensional control. Marking out, workholding, and toolholding are also discussed, along with joining, assembly, and dismantling. The interpretation of technical drawings, specifications, and data is considered as well. Comprised of 10 chapters, this book begins with a historical overview of the development of the engineering industry, followed by a discussion on the academic qualifications and training of the various categories of technical personnel employed in the industry. The reader is then introduced to safe practices observed in the engineering industry, with emphasis on health and safety legislation, causes of accidents, and accident prevention. Subsequent chapters focus on safety considerations in the movement of loads; measurement and control of dimensional properties; advantages and disadvantages of marking out; workholding and toolholding applications; and assembly and dismantling. This monograph is intended for undergraduate students and those enrolled in training centers and in industrial apprentice training schemes.

**Engineering Fundamentals and Problem Solving** Independently Published

The second edition of Holtzapple and Reece's popular text, Concepts in Engineering, introduces fundamental engineering concepts to freshman engineering students. Its central focus is to positively motivate students for the rest of their engineering education, as well as their future engineering. Due to the book's concise, yet comprehensive coverage, it can be used in a wide variety of introductory courses.

### **Fundamentals of Engineering Mechanics** Professional Publications Incorporated

This Book Presents A Practical-Oriented, Sound, Modularized Coverage Of Fundamental Topics Of Basic Electrical Engineering, Network Analysis & Network Theorems, Electromagnetism & Magnetic Circuit, Alternating Current & Voltages, Electrical Measurement & Measuring Instrument And Electric Machines. Salient Features: # Clarification Of Basic Concepts # Several Solved Examples With Detailed Explanation # At The End Of Chapters, There Are Descriptive And Numerical Unsolved Problems # Written In Very Simple Language And Suitable For Self-Study # Step-By-Step Procedures Given For Solving Numerical

### *Basic Engineering for Builders* New Age International

This concise yet comprehensive text introduces the essential concepts of bioprocessing - internal structure and functions of different types of microorganisms, major metabolic pathways, enzymes, microbial genetics, kinetics and stoichiometry of growth and product information - to traditional chemical engineers and those in related disciplines. It explores the engineering principles necessary for bioprocess synthesis and design, and illustrates the application of these principles to modern biotechnology for production of pharmaceuticals and biologics, solution of environmental problems, production of commodities, and medical applications.

### *Electrical Steels* Pearson College Division

This book presents fundamental contributions to computer science as written and recounted by those who made the contributions themselves. As such, it is a highly original approach to a living history of the field of computer science. The scope of the book is broad in that it covers all aspects of computer science, going from the theory of computation, the theory of programming, and the theory of computer system performance, all the way to computer hardware and to major numerical applications of computers.

### *Fundamentals and Basic Concepts* Elsevier

Explore the profession of engineering, and learn the tools you need to start strong in college. This book will introduce you to the engineering profession and give you an idea of what it will be like to major in engineering in college. It covers the wide range of engineering specialties, various career pathways, and the overall benefits of the earning an engineering degree. Yet this book aims to do more than simply build your excitement about studying engineering. It also means to provide an introduction to the tools that you will need to start strong once you begin college. This text provides a very basic introduction and overview of what we call 'engineering fundamentals' - the concepts that every engineer needs to know. Topics are presented in a straightforward manner that avoids the need for complicated mathematics, allowing for a focus on understanding and applying the concepts, rather than getting bogged down in the technical solution. Key Features Discussions on what engineers do, the various engineering specialties, and the skills and traits common to all successful engineers Details what an engineering education entails, and how students can set themselves up for success both in college admissions and in engineering school Considerations in choosing an engineering school and on pursuing advanced degrees "Professional Profiles" of real-life practicing engineers provide a first-hand perspective on the wide range of career paths available to those with an engineering degree Each concept is supported with sample problems and worked solutions, reinforcing theory and developing understanding via hands-on practice "Engineering Application" case-studies help relate the presented concepts to real-world challenges and solutions Spreadsheets are introduced as an important engineering tool, and their use in solving problems is developed via step-by-step learning activities Relevant practice problems with selected answers allow for both additional practice and for measures of proficiency

### *Materials for Engineering* AuthorHouse

Fundamentals of Engineering Mechanics presents introductory concepts in statics and dynamics, through a module-based learning approach. Basic concepts are introduced through a simplified discussion of background theory, example problems, and exercises with the answers provided. This textbook can be used for the review of engineering mechanics fundamentals and for undergraduate course enhancement in separate or combined courses in statics and/or dynamics. It can also be used as a study aid for students and professionals preparing for the Fundamentals of Engineering and/or Professional Engineer Examinations. It makes a great desk reference book as well.

### *Probability Concepts in Engineering Planning and Design, Basic Principles* NestFame Creations Pvt Ltd.

"This book teaches the principles of design, and how they apply to engineering design projects and future job activities. Updated in response to reviewer feedback, this edition features even more design projects and increased coverage of team skills."--Publisher's website.

### *Basic Mechanical Engineering* Universal-Publishers

Basic Mechanical Engineering covers a wide range of topics and engineering concepts that are required to be learnt as in any undergraduate engineering course. Divided into three parts, this book lays emphasis on explaining the logic and physics of critical problems to develop analytical skills in students.

### *Engineering Elephants* NestFame Creations Pvt Ltd.

An earnest attempt has been made in the book 'Basic Concepts of Electrical Engineering' to elucidate the principles and applications of Electrical Engineering and also its importance, so as to evince interest on the topics so that the student gets motivated to study the subject with interest.

### Practices, Crosscutting Concepts, and Core Ideas Imperial College Press

Basic engineering principles are offered in non-technical language that the builder can put to use on his jobs. Includes understanding engineering requirements on the plans and how to meet them, sizing of structural members using only preliminary plans, and requirements for steel, concrete, and masonry.