

## Atul Prakashan Engineering

Taking a big-picture approach, *Piping and Pipeline Engineering: Design, Construction, Maintenance, Integrity, and Repair* elucidates the fundamental steps to any successful piping and pipeline engineering project, whether it is routine maintenance or a new multi-million dollar project. The author explores the qualitative details, calculations, and t

The high-stakes game of the underworld has new faces, working for and against Dawood Ibrahim - the shadowy, manipulative figure that pulls the strings. Dawood's own deputy turned arch-rival Chhota Rajan, thug-turned-politician Arun Gawli, Amar (Raavan) Naik and his engineer brother Ashwin Naik, and a host of other characters, big and small, walk the pages of this compelling history of the Maharashtrian mobsters who were once dubbed 'amchi muley', 'our boys', by Shiv Sena chief Bal Thackeray. Equally fascinating are the stories of the famous - and infamous - policemen and 'encounter specialists' who took the gangs on with great success and not too many scruples. Violence and deceit one expects to read of, but the strength of this book is also its ability to capture the mundane - almost naive - beginnings of what very quickly became the organized crime and brutal vendettas that held Mumbai to ransom through the last decades of the twentieth century. Meticulously researched and thrillingly told by the acknowledged expert on the underworld, this is faster-paced than *Dongri to Dubai*, and even more chilling in its implications for India and the subcontinent.

Fans of Chris Ferrie's *ABCs of Biology*, *ABCs of Space*, and *ABCs of Physics* will love this introduction to engineering for babies and toddlers! This alphabetical installment of the Baby University baby board book series is the perfect introduction to science for infants and toddlers. It makes a wonderful science baby gift for even the youngest engineer. Give the gift of learning to your little one at birthdays, baby showers, holidays, and beyond! A is for Amplifier B is for Battery C is for Carnot Engine From amplifier to zoning, the *ABCs of Engineering* is a colorfully simple introduction to STEM for babies and toddlers to a new engineering concept for every letter of the alphabet. Written by two experts, each page in this engineering primer features multiple levels of text so the book grows along with your little engineer. If you're looking for the perfect STEAM book for teachers, science toys for babies, or engineer toys for kids, look no further! *ABCs of Engineering* offers fun early learning for your little scientist!

The only book on the market that emphasizes machine design beyond the basic principles of AC and DC machine behavior AC electrical machine design is a key skill set for developing competitive electric motors and generators for applications in industry, aerospace, and defense. This book presents a thorough treatment of AC machine design, starting from basic electromagnetic principles and continuing through the various design aspects of an induction machine. *Introduction to AC Machine Design* includes one chapter each on the design of permanent magnet machines, synchronous machines, and thermal design. It also offers a basic treatment of the use of finite elements to compute the magnetic field within a machine without interfering with the initial comprehension of the core subject matter. Based on the author's notes, as well as after years of classroom instruction, *Introduction to AC Machine Design*: Brings to light more advanced principles of machine design—not just the basic principles of AC and DC machine behavior Introduces electrical machine design to neophytes while also being a resource for experienced designers Fully examines AC machine design, beginning with basic electromagnetic principles Covers the many facets of the induction machine design *Introduction to AC Machine Design* is an important text for graduate school students studying the design of electrical machinery, and it will be of great interest to manufacturers of electrical machinery.

This edition has been thoroughly revised and enlarged. It is still considered to be a must for all those sitting Civil Engineering examinations.

This comprehensive introduction to basic manufacturing processes is ideal for both degree and diploma courses in engineering. With several pedagogical features, the text makes the topics understandable and appealing for students. The book first introduces the concepts of engineering materials and their properties, measurement and quality in manufacturing and allied activities before dwelling upon the details of different manufacturing processes such as machining, casting, metal forming, powder metallurgy and joining. To keep pace with the latest advancements in technology, use of non-conventional resources, applications of computers, and use of robots in manufacturing are also discussed in considerable detail. The text also provides a thorough treatment of topics on economy and management of production.

This book is designed for the 3rd semester gtu engineering students pursuing the probability and statistics (code 3130006). The crisp but complete explanation of topics will help the students easily understand the basic concepts. The tutorial approach (I.E. Teach by example) followed in the text will enable students develop a logical perspective to solving problems.

This book provides a review of problems during design and construction on problematic soils. Design methods, site investigation, construction and analysis of the various improvement methods available are explained and discussed. Various regions may have different soils with geotechnical problems that differ from those faced in other regions. For example, in Southeast Asia, the common geotechnical problems are those associated with construction on soft clays and organic soils, while in the arid region of the Middle East, problems are generally associated with the desert soils. In the US, the problems are associated with organic soils, expansive and collapsing soils, and shale. Laterite and lateritic soils are especially problematic in Mexico. Similarly, in Europe, for example, the geotechnical problems are associated with loess (France), and organic soil (Germany). A detailed description of various methods of ground improvement has been provided in 11 chapters. Each chapter deals not only with a description of the method but also focuses on region-specific ground problems and suitable ground improvement techniques. Case studies have also been included. One general chapter is dedicated to site investigation, instrumentation, assessment and control. This book will be of value to students and professionals in the fields of civil and geotechnical engineering, as well as to soil scientists and engineering geologists.

During the 19th century, the engineering of ports and harbours became a large and specialised branch of the profession. This development began in ports in physically difficult locations and may be particularly identified with the growth of the Port of Liverpool. Stimulated by the arrival of ever-larger steamships and the heavy investment in port facilities that they demanded, it spread around much of the world. The opening papers give examples of what could be achieved in antiquity; the following ones set out the advances in design and technology from 1700 to the start of this century - and note some of the failures and recurrent problems. They also illustrate the critical importance of political and economic factors in determining what the engineers achieved.

S. Chand's *Physics*, designed to serve as a textbook for students pursuing their engineering degree course, B.E. in Gujarat Technical University. The book is written with the singular objective of providing the students of GTU with a distinct source material as per the syllabus. The philosophy of presentation of the material in the book is based upon decades of classroom interaction of the authors. In each chapter,

the fundamental concepts pertinent to the topic are highlighted and the in-between continuity is emphasized. Throughout the book attention is given to the proper presentation of concepts and practical applications are cited to highlight the engineering aspects. A number of problems are solved. New problems are included in order to expedite the learning process of students of all hues and to improve their academic performance. The fundamental concepts are emphasized in each chapter and the details are developed in an easy-to-follow style. Each chapter is divided into smaller parts and sub-headings are provided to make the reading a pleasant journey from one interesting topic to another important topic.

The revised and updated edition includes the latest developments in the field of ERP, information technology and new technologies that are changing the ERP landscape. Divided into eight sections, the book covers ERP Basics, ERP and Technology, ERP Implementation, Operation and Maintenance of the ERP system, Business Modules of ERP, ERP Market, Present and Future of ERP, ERP Resources, Case studies, Career guidance, Manufacturing perspective, etc.

A rigorous and thorough analysis of the production of air pollutants and their control, this text is geared toward chemical and environmental engineering students. Topics include combustion, principles of aerosol behavior, theories of the removal of particulate and gaseous pollutants from effluent streams, and air pollution control strategies. 1988 edition. Reprint of the Prentice-Hall, Inc., Englewood Cliffs, New Jersey, 1988 edition.

The Assistant Mechanical Engineer Passbook(R) prepares you for your test by allowing you to take practice exams in the subjects you need to study.

This book focuses on Process Engineering and Design of Chemical Plant and Equipment. It delves into the evaluation of options for design including innovation, cost-effectiveness, safety etc. as important evaluation criteria.

ACE THE GMAT is based on a simple but powerful observation: Test-takers who score high on the GMAT exam do so primarily by understanding how to solve a finite number of the most important, recurring problems that appear on the GMAT. What are these important, recurring problems? The answer to this question is the basis of this book. This manual provides in-depth analysis of over 200 all-star problems that are key to mastering the seven major GMAT problem types including Problem Solving, Data Sufficiency, Sentence Correction, Critical Reasoning, Reading Comprehension, Analytical Writing, and Integrated Reasoning. Apart from providing readers with answers and full explanations, a special feature of this book is that each problem is categorized by type ("classification"), rated by difficulty level ("chili rating"), and supplemented with a problem-solving strategy ("snapshot"). "Chance favors the prepared mind." Whether you're a candidate already enrolled in a test-prep course or are undertaking self-study, this guidebook will serve as a rigorous skill-building study guide to help you conquer the math, verbal, analytical writing, and integrated reasoning sections of the exam. Studying for the math and verbal sections of the GMAT exam requires some 100 hours of study time. This book's content is conveniently divided into topics, which require two to three hours of study time per day. Total study time will vary between 80 to 120 hours for the entire 40 days. Solving (Official exam instructions for Problem Solving, Strategies and approaches, Review of basic math, Multiple-choice problems, Answers and explanations); Chapter 3 – Data Sufficiency (Official exam instructions for Data Sufficiency, Strategies and approaches, How are answers chosen in Data Sufficiency? How do the big seven numbers work? Multiple-choice problems, Answers and explanations); Chapter 4 – Sentence Correction (Official exam instructions for Sentence Correction, Strategies and approaches, Review of Sentence Correction, Multiple-choice problems, Answers and explanations); Chapter 5 – Critical Reasoning (Official exam instructions for Critical Reasoning, Strategies and approaches, Review of Critical Reasoning, Multiple-choice problems, Answers and explanations); Chapter 6 – Reading Comprehension (Official exam instructions for Reading Comprehension, Strategies and approaches, Review of Reading Comprehension, Answers and explanations); Chapter 7 – Analytical Writing Workshop (Official exam instructions for the Analytical Writing Assessment, Strategies and approaches, Review of Analytical Writing, Essay exercises, Outlines and proposed solutions); Chapter 8 – Integrated Reasoning Workshop (Official exam instructions for Integrated Reasoning, Strategies and approaches; Review of Integrated Reasoning with exercises, Answers and explanations); Appendix I – GMAT and MBA Informational Websites (Registering for the GMAT exam; MBA fairs & forums; MBA social networks; GMAT courses; Other GMAT & MBA websites; Information on business school rankings); Appendix II – Contact Information for the World's Leading Business Schools (U.S. business schools; Canadian business schools; European business schools; Australian business schools; Asia-Pacific business schools; Latin and South American business schools; South African business schools); Quiz – Answers; On a Personal Note; Praise for Ace the GMAT. "Finally, a book that helps you master those learning skills that are critical to success on the GMAT." —Linda B. Meehan, former Assistant Dean & Executive Director of Admissions, Columbia Business School

Modern computer simulations make stress analysis easy. As they continue to replace classical mathematical methods of analysis, these software programs require users to have a solid understanding of the fundamental principles on which they are based. Develop Intuitive Ability to Identify and Avoid Physically Meaningless Predictions Applied Mechanics

Updated Edition Includes a New Chapter and Enhanced Study Material The second edition of Environmental Microbiology for Engineers explores the role that microorganisms play in the engineered protection and enhancement of an environment. Offering a perfect balance of microbiological knowledge and environmental biotechnology principles, it provides a practical understanding of microorganisms and their functions in the environment and in the environmental engineering systems. The book also presents a quantitative description of applied microbiological processes and their engineering design. This updated edition adds a new chapter on construction biotechnology, and offers new end-of-chapter exam questions with solutions to aid readers with performing the design calculations needed and to enhance understanding of the material. The book covers essential topics that include: Diversity and functions of microorganisms in environmental engineering systems Environmental bioengineering processes Applied microbial genetics and

molecular biology Microbiology of water and wastewater treatment Biotreatment of solid waste and soil bioremediation Microbial monitoring of environmental engineering systems Biocorrosion and biodeterioration of materials Biocementation and bioclogging of soil Biopollution of indoor environment Biofouling of facilities, and more Environmental Microbiology for Engineers provides a practical understanding of microorganisms in the civil engineering process and their functions in the environmental engineering systems, and is designed for practicing environmental engineers working in the areas of wastewater, solid waste treatment, soil remediation and ground improvement.

The orientation towards vehicle maintenance led to the significant advancements in its engineering applications in the past few decades. With the advent of automation and electronics in automobiles, the study gained more momentum, which led vehicle maintenance and garage practice to emerge as a new discipline of automobile engineering. The present book is an attempt to reveal underlying principles and best practices in diagnostic procedures, services, repairs and overhauling of the vehicles. The key techniques and methods described with the help of diagrams and images make the book user-friendly and informative, enabling students to understand the concept easily. The text not only provides theoretical information, but also imparts practical knowledge on vehicle maintenance and repairing, emphasising the role and function of service stations. The book deals with both conventional and non-conventional methods of repairing and overhauling. Primarily designed for the undergraduate and postgraduate students of automobile and mechanical engineering, the lucid and simple presentation of the book makes it useful for the students pursuing diploma in automobile engineering as well. It can be used as an automobile repair guide by vehicle owners for its step-by-step explanation of repair procedures, which help them to carry out repair and maintenance conveniently.

Introduction to Process Engineering and Design covers basic principles to design alternate systems, develop process diagrams and select the best alternative to be adopted. Multiple industrial examples provided in the book will enhance the skills of the readers for innovative designs. Salient Features: • Focuses on process design of chemical plants and equipment • State-of-the-art technique of supercritical extraction, reactive distillation, short path distillation discussed • Process Flow-charts are provided throughout the book

The availability and continuity of Petroleum and Natural gas have become an important parameter for the growth of economy of any country. Specially the scarcity of the precious stock is reflected in the growing economies. Our country being poor in these resources, has to depend upon the ever increasing imports. Our crude production for decades together never crossed 34 MMT thus by 2010 we may have to import 130-150 MMTPA, though our refining capacity has gone up to 134 MMTPA with a present consumption of 110 MMTPA. With new discoveries and over-sea ventures by ONGC and other oil producing organizations, present production is better than what it was four decades ago. The present Fifth Edition is a value added text and taken care of many aspects of modern refining and Indian Industry. Contents: Origin, Formation and Composition of Petroleum / Petroleum Processing Data / Fractionation of Petroleum / Treatment Techniques / Thermal and Catalytical Processes / Asphalt Technology / Appendix 1 / Appendix 2 / Appendix 3 / Appendix 4 / Appendix 5 / Index

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