

Atul Prakashan Elements Of Mechanical Engineering

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Graphics Recognition. Recent Advances

- Atul K. Chhabra 2003-06-29

This edited volume contains refereed and improved versions of select papers 1 that were presented at the third IAPR Workshop on Graphics Recognition (GREC'99), held at Rambagh Palace in Jaipur, India,

26-27, September 1999. The workshop was organized by the TC10 (Technical Committee on Graphics Recognition) of the IAPR. Edited volumes from the previous two workshops in this series are also available as Lecture Notes in Computer Science (volumes 1072 and 1389). Graphics recognition is the

study of techniques for computer interpretation of images of line drawings and symbols. This includes methods such as vectorization, symbol recognition, and table and chart recognition for applications such as engineering drawings, schematics, logic drawings, maps, diagrams, and musical scores. Some recently developed techniques include graphics-based information or drawing retrieval and recognition of online graphical strokes. With the recent advances in the field, there is now a need to develop benchmarks for evaluating and comparing algorithms and systems. Graphics recognition is a growing field of interest in the broader document image recognition community. The GREC'99 workshop was attended by fifty-five people from fifteen countries. The workshop program consisted of six technical sessions. Each session began with a half-hour invited talk which was followed by several short talks. Each

session closed with a half-hour panel discussion where the authors fielded questions from the other participants. Several interesting new research directions were discussed at the workshop.

Theory of Machines - RS Khurmi | JK Gupta 2005

While writing the book, we have continuously kept in mind the examination requirements of the students preparing for U.P.S.C. (Engg. Services) and A.M.I.E. (I) examinations. In order to make this volume more useful for them, complete solutions of their examination papers up to 1975 have also been included. Every care has been taken to make this treatise as self-explanatory as possible. The subject matter has been amply illustrated by incorporating a good number of solved, unsolved and well graded examples of almost every variety.

The Civil Engineering Handbook - W.F.

Chen 2002-08-29

First published in 1995, the award-winning Civil Engineering Handbook soon became known as the field's definitive reference. To retain its standing as a complete, authoritative resource, the editors have incorporated into this edition the many changes in techniques, tools, and materials that over the last seven years have found their way into civil engineering research and practice. The Civil Engineering Handbook, Second Edition is more comprehensive than ever. You'll find new, updated, and expanded coverage in every section. In fact, more than 1/3 of the handbook is new or substantially revised. In particular you'll find increased focus on computing reflecting the rapid advances in computer technology that has revolutionized many aspects of civil engineering. You'll use it as a survey of the field, you'll use it to explore a particular subject, but

most of all you'll use The Civil Engineering Handbook to answer the problems, questions, and conundrums you encounter in practice.

Elements of MECHANICAL ENGINEERING -
V. K. MANGLIK 2013-04-08

This book provides a comprehensive and wide-ranging introduction to the fundamental principles of mechanical engineering in a distinct and clear manner. The book is intended for a core introductory course in the area of foundations and applications of mechanical engineering, prescribed for the first-year students of all disciplines of engineering. The book develops an intuitive understanding of the basic principles of thermodynamics as well as of the principles governing the conversion of heat into energy. Numerous illustrative examples are provided to fortify these concepts throughout. The book gives the students a feel for how thermodynamics is applied in engineering practice in the areas of

heat engines, steam boilers, internal combustion engines, refrigeration and air conditioning, and to devices such as turbines, pumps and compressors. The book also provides a basic understanding of mechanical design, illustrating the principles through a discussion of devices designed for the transmission of motion and power such as couplings, clutches and brakes. No book on basic mechanical engineering is complete without an introduction to materials science. The text covers the treatment of the common engineering materials, highlighting their properties and applications. Finally, the role of lubrication and lubricants in reducing the wear and tear of parts in mechanical systems, is lucidly explained in the concluding chapter. The text features several fully worked-out examples, a fairly large number of numerical problems with answers, end-of-chapter review questions and multiple choice

questions, which all enhance the value of the text to the students. Besides the students studying for an engineering degree, this book is also suitable for study by the students of AMIE and the students of diploma level courses.

Engineering Fundamentals: An Introduction to Engineering, SI Edition - Saeed Moaveni 2011-01-01

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.

ELEMENTS OF CIVIL ENGINEERING - 4TH EDITION - S S Bhavikatti 2005-01-01

Digital Electronics - Anil K. Maini
2007-09-27

The fundamentals and implementation of digital electronics are essential to understanding the design and working of consumer/industrial electronics, communications, embedded systems, computers, security and military equipment. Devices used in applications such as these are constantly decreasing in size and employing more complex technology. It is therefore essential for engineers and students to understand the fundamentals, implementation and application principles of digital electronics, devices and integrated circuits. This is so that they can use the most appropriate and effective technique to suit their technical need. This book provides practical and comprehensive coverage of digital electronics, bringing together information on fundamental theory, operational aspects and potential applications. With worked problems, examples, and review questions for each chapter, Digital

Electronics includes: information on number systems, binary codes, digital arithmetic, logic gates and families, and Boolean algebra; an in-depth look at multiplexers, de-multiplexers, devices for arithmetic operations, flip-flops and related devices, counters and registers, and data conversion circuits; up-to-date coverage of recent application fields, such as programmable logic devices, microprocessors, microcontrollers, digital troubleshooting and digital instrumentation. A comprehensive, must-read book on digital electronics for senior undergraduate and graduate students of electrical, electronics and computer engineering, and a valuable reference book for professionals and researchers.

A Textbook of Manufacturing Technology - R. K. Rajput 2007

Nanomaterials in Drug Delivery, Imaging, and Tissue Engineering -

Ashutosh Tiwari 2013-02-18

This comprehensive volume provides the reader valuable insight into the major areas of biomedical nanomaterials, advanced nanomedicine, nanotheragnostics, and cutting-edge nanoscaffolds. The ability to control the structure of materials allows scientists to accomplish what once appeared impossible before the advent of nanotechnology. It is now possible to generate nanoscopic self-assembled and self-destructive robots for effective utilization in therapeutics, diagnostics, and biomedical implants. Nanoscopic therapeutic systems incorporate therapeutic agents, molecular targeting, and diagnostic imaging capabilities and they have emerged as the next generation of multifarious nanomedicine to improve the therapeutic outcome including chemo and translational therapy. Nanomaterials in Drug Delivery, Imaging, and Tissue Engineering

comprises fifteen chapters authored by senior scientists, and is one of the first books to cover nanotheragnostics, which is the new developmental edge of nanomedicine combining both diagnostic and therapeutic elements at the nano level. This large multidisciplinary reference work has four main parts: biomedical nanomaterials; advanced nanomedicine; nanotheragnostics; and nanoscaffolds technology. This groundbreaking volume also covers: Multifunctional polymeric nanostructures for therapy and diagnosis Metalla-assemblies acting as drug carriers Nanomaterials for management of lung disorders and drug delivery Responsive polymer-inorganic hybrid nanogels for optical sensing, imaging, and drug delivery Core/shell nanoparticles for drug delivery and diagnosis Theranostic nanoparticles for cancer imaging and therapy Magnetic nanoparticles in tissue regeneration Core-sheath fibers for

regenerative medicine
An Introduction to Numerical Methods and Analysis - James F. Epperson
2013-06-06
Praise for the First Edition ". . . outstandingly appealing with regard to its style, contents, considerations of requirements of practice, choice of examples, and exercises." -Zentrablatt Math ". . . carefully structured with many detailed worked examples . . ." -The Mathematical Gazette ". . . an up-to-date and user-friendly account . . ." -Mathematika
An Introduction to Numerical Methods and Analysis addresses the mathematics underlying approximation and scientific computing and successfully explains where approximation methods come from, why they sometimes work (or don't work), and when to use one of the many techniques that are available. Written in a style that emphasizes readability and usefulness for the numerical methods novice, the

book begins with basic, elementary material and gradually builds up to more advanced topics. A selection of concepts required for the study of computational mathematics is introduced, and simple approximations using Taylor's Theorem are also treated in some depth. The text includes exercises that run the gamut from simple hand computations, to challenging derivations and minor proofs, to programming exercises. A greater emphasis on applied exercises as well as the cause and effect associated with numerical mathematics is featured throughout the book. An Introduction to Numerical Methods and Analysis is the ideal text for students in advanced undergraduate mathematics and engineering courses who are interested in gaining an understanding of numerical methods and numerical analysis.

Artificial Intelligence and Legal Analytics - Kevin D. Ashley

2017-07-10

The field of artificial intelligence (AI) and the law is on the cusp of a revolution that began with text analytic programs like IBM's Watson and Debater and the open-source information management architectures on which they are based. Today, new legal applications are beginning to appear and this book - designed to explain computational processes to non-programmers - describes how they will change the practice of law, specifically by connecting computational models of legal reasoning directly with legal text, generating arguments for and against particular outcomes, predicting outcomes and explaining these predictions with reasons that legal professionals will be able to evaluate for themselves. These legal applications will support conceptual legal information retrieval and allow cognitive computing, enabling a collaboration between humans and computers in which each does what it

can do best. Anyone interested in how AI is changing the practice of law should read this illuminating work.

Indian Books in Print - 1996

Engineering Mathematics-II - A.
Ganeshi 2009

About the Book: This book Engineering Mathematics-II is designed as a self-contained, comprehensive classroom text for the second semester B.E. Classes of Visveswaraiiah Technological University as per the Revised new Syllabus. The topics included are Differential Calculus, Integral Calculus and Vector Integration, Differential Equations and Laplace Transforms. The book is written in a simple way and is accompanied with explanatory figures. All this make the students enjoy the subject while they learn. Inclusion of selected exercises and problems make the book educational in nature. It shou.

Workshop Technology - Ravindra

Prakash Kiran

Workshop Technology has been written to give an introduction of various workshop and manufacturing technologies and processes to students of degree and diploma engineering. The book has been written in a logical sequence so that the students can move on to complex manufacturing processes after acquiring knowledge about the basics of processes and materials. This will prove to be an ideal textbook for them to face the term end practical and theory tests with confidence. It is advised that the students should go through the relevant chapters before they start out in workshop or attend a theory lecture on these. KEY FEATURES • Concise presentation of practices in various mechanical shops • Plenty of diagrams to describe every process and tools • Large number of chapter-end review questions • All recent techniques have been covered

A TEXTBOOK OF ENGINEERING CHEMISTRY - SYAMALA SUNDAR DARA 2008

Any good text book, particularly that in the fast changing fields such as engineering & technology, is not only expected to cater to the current curricular requirements of various institutions but also should provide a glimpse towards the latest developments in the concerned subject and the relevant disciplines. It should guide the periodic review and updating of the curriculum.

Elements of Mechanical

Engineering (GTU) - Sadhu Singh 2010
The book strictly complies with the new syllabus of Gujarat Technological University, Ahmedabad, for B.E. First year of all branches of Engineering. The subject matter is presented in a graded stepwise, easy to follow style. Each chapter includes Multiple Choice Questions, Review Questions and Exercises for easy recapitulation.
Elements of Mechanical Engineering - R.K. Rajput 2005

Machine Drawing - N. D. Bhatt 1991

Strength Of Materials - R. S. Khurmi 2008-01-01

The present edition of this book is in S.I. Units To Make the book really useful at all levels, a number of articles as well as solved and unsolved examples have been added. The mistake, which had crept in, have been eliminated. Three new chapters of Thick Cylindrical and Spherical shells, Bending of Curved Bars and Mechanical Properties of Materials have also been added.

Automobile Mechanical and Electrical Systems - Tom Denton 2017-08-25

The second edition of Automobile Mechanical and Electrical Systems concentrates on core technologies to provide the essential information required to understand how different vehicle systems work. It gives a complete overview of the components and workings of a vehicle from the engine through to the chassis and

electronics. It also explains the necessary tools and equipment needed in effective car maintenance and repair, and relevant safety procedures are included throughout. Designed to make learning easier, this book contains: Photographs, flow charts and quick reference tables Detailed diagrams and clear descriptions that simplify the more complicated topics and aid revision Useful features throughout, including definitions, key facts and 'safety first' considerations. In full colour and with support materials from the author's website (www.automotive-technology.org), this is the guide no student enrolled on an automotive maintenance and repair course should be without.

The Elements of Mechanical and Electrical Engineering - International Correspondence Schools 1899

Indian Books - 1970

DESIGN OF MACHINE ELEMENTS (Subject Code MEC 604) - Vinod Thombre-Patil 2020

The 1st edition of book entitled "Design of Machine Elements" for IIIrd Year Diploma, Semester VI in Diploma in Mechanical Engineering Group as per the syllabus prescribed by SBTE. We have observed the students facing extreme difficulties in understanding the basic principles and fundamental concepts without adequate solved problems along with the text. To meet this basic requirement of students, sincere efforts have been made to present the subject matter with frequent use of figures and lots of numerical examples.

The Elements of Mechanics - Giovanni Gallavotti 2013-04-17

The word "elements" in the title of this book does not convey the implication that its contents are "elementary" in the sense of "easy": it mainly means that no prerequisites

are required, with the exception of some basic background in classical physics and calculus. It also signifies "devoted to the foundations". In fact, the arguments chosen are all very classical, and the formal or technical developments of this century are absent, as well as a detailed treatment of such problems as the theory of the planetary motions and other very concrete mechanical problems. This second meaning, however, is the result of the necessity of finishing this work in a reasonable amount of time rather than an a priori choice. Therefore a detailed review of the "few" results of ergodic theory, of the "many" results of statistical mechanics, of the classical theory of fields (elasticity and waves), and of quantum mechanics are also totally absent; they could constitute the subject of two additional volumes on mechanics. This book grew out of several courses on meccanica

razionale, i.e., essentially, theoretical mechanics, which I gave at the University of Rome during the years 1975-1978.

Vehicle Dynamics and Control - Rajesh Rajamani 2011-12-21

Vehicle Dynamics and Control provides a comprehensive coverage of vehicle control systems and the dynamic models used in the development of these control systems. The control system applications covered in the book include cruise control, adaptive cruise control, ABS, automated lane keeping, automated highway systems, yaw stability control, engine control, passive, active and semi-active suspensions, tire-road friction coefficient estimation, rollover prevention, and hybrid electric vehicles. In developing the dynamic model for each application, an effort is made to both keep the model simple enough for control system design but at the same time rich enough to capture the essential

features of the dynamics. A special effort has been made to explain the several different tire models commonly used in literature and to interpret them physically. In the second edition of the book, chapters on roll dynamics, rollover prevention and hybrid electric vehicles have been added, and the chapter on electronic stability control has been enhanced. The use of feedback control systems on automobiles is growing rapidly. This book is intended to serve as a useful resource to researchers who work on the development of such control systems, both in the automotive industry and at universities. The book can also serve as a textbook for a graduate level course on Vehicle Dynamics and Control.

Civil Engineering (Conventional & Objective Type) - R. S. Khurmi 2007

Elements of Mechanical Engineering (PTU) - Sadhu Singh 2009

The present book on Elements of Mechanical Engineering is meant for the engineering students of all branches at their first year level. It covers the new syllabus of panjab Technical University, Jalandhar. However, it shall be useful to students of other Universities also. The book covers the basic principles of Thermodynamics, zeroth law of Thermodynamics and the concept of temperature in the first chapter. Engineering Metrology and Measurements - Raghavendra, 2013-05
Engineering Metrology and Measurements is a textbook designed for students of mechanical, production and allied disciplines to facilitate learning of various shop-floor measurement techniques and also understand the basics of mechanical measurements.

Seismic Rehabilitation of Existing Buildings - American Society of Civil Engineers 2007

Standard ASCE/SEI 41-06 presents the latest generation of performance-based seismic rehabilitation methodology.

Nontraditional Machining Processes - J. Paulo Davim 2013-06-14

Nontraditional machining employs processes that remove material by various methods involving thermal, electrical, chemical and mechanical energy or even combinations of these. Nontraditional Machining Processes covers recent research and development in techniques and processes which focus on achieving high accuracies and good surface finishes, parts machined without burrs or residual stresses especially with materials that cannot be machined by conventional methods. With applications to the automotive, aircraft and mould and die industries, Nontraditional Machining Processes explores different aspects and processes through dedicated chapters. The seven chapters explore

recent research into a range of topics including laser assisted manufacturing, abrasive water jet milling and hybrid processes. Students and researchers will find the practical examples and new processes useful for both reference and for developing further processes. Industry professionals and materials engineers will also find Nontraditional Machining Processes to be a source of ideas and processes for development and industrial application.

India's Mixed Economy - Baldev Raj Nayar 1989

Engineering Thermodynamics - R. K. Rajput 2010

Mechanical Engineering

Mihir's Handbook of Chemical Process Engineering (Excerpts) - Mihir Patel 2018-01-01

This book will aid the chemical engineer to carry out chemical process engineering in a very

practical way. The process engineer can use the excel based calculation templates effectively to do correct and proper process design. Chemical engineering is a very vast and complex field. This book aims to simplify the process engineering design. Design of a chemical plant involves one being adept in technical aspects of process engineering. The book aims at making the chemical engineer proficient in the art of process design. Included are chemical engineering basics on simulation, stoichiometry, fluid property calculation, dimensionless numbers, thermodynamics and on chemical engineering equipment like pump, compressor, steam turbine, gas turbine, flare, motor, fired heater, incinerator, heat exchanger, distillation column, fractionation column, absorber, stripper, packed column, solar evaporation pond, separator. Utility design of nitrogen, compressed air, water,

effluent treatment, steam, condensate, desalination, fuel selection is covered. Many chemical engineering calculations have been included. Special process items like flame arrestor, demister, feed device, pressure reducing and desuperheating station (PRDS), vortex breaker, electric heater, manual valve have been covered. Process engineering design criteria, process control, material of construction, specialized process studies, safety studies, precommissioning and commissioning have been covered. Project engineer will also benefit from information provided on types of project (EPC, EPCM, Cost + Fee, etc) as well as interdisciplinary interaction between various engineering disciplines i.e. process, piping, mechanical, instrumentation, electrical, civil and THSE. Process engineering documentation like process design basis, process philosophies, process flow diagram

(PFD), piping and instrumentation diagram (P&ID), block flow diagram (BFD), DP-DT diagram, material selection diagram (MSD), line list, summaries like utility summary, effluent and emission summary, tie in summary and flare relief load summary have been covered with blank templates. Excerpts from few chapters have been provided.

A Textbook of Strength of Materials - R. K. Bansal 2010

Design of Steel Structures - Elias G. Abu-Saba 2012-12-06

This book is intended for classroom teaching in architectural and civil engineering at the graduate and undergraduate levels. Although it has been developed from lecture notes given in structural steel design, it can be useful to practicing engineers. Many of the examples presented in this book are drawn from the field of design of structures. Design of Steel Structures can be

used for one or two semesters of three hours each on the undergraduate level. For a two-semester curriculum, Chapters 1 through 8 can be used during the first semester. Heavy emphasis should be placed on Chapters 1 through 5, giving the student a brief exposure to the consideration of wind and earthquakes in the design of buildings. With the new federal requirements vis a vis wind and earthquake hazards, it is beneficial to the student to have some understanding of the underlying concepts in this field. In addition to the class lectures, the instructor should require the student to submit a term project that includes the complete structural design of a multi-story building using standard design procedures as specified by AISC Specifications. Thus, the use of the AISC Steel Construction Manual is a must in teaching this course. In the second semester, Chapters 9 through 13 should be covered. At the

undergraduate level, Chapters 11 through 13 should be used on a limited basis, leaving the student more time to concentrate on composite construction and built-up girders.

Basic Mechanical Engineering - Pravin Kumar

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.

Solid and Hazardous Waste Management

- M.N. Rao 2016-10-27

Solid and Hazardous Waste Management: Science and Engineering presents the latest on the rapid increase in volume and types of solid and hazardous wastes that have resulted from economic growth, urbanization, and industrialization and how they have challenged national and local

governments to ensure effective and sustainable management of these waste products. The book offers universal coverage of the technologies used for the management and disposal of waste products, such as plastic waste, bio-medical wastes, hazardous wastes, and e-wastes. Covers both traditional and new technologies for Identifying and categorizing the source and nature of the waste Provides methods for the safe disposal of municipal solid wastes, plastic waste, bio-medical wastes, hazardous wastes, and e-wastes Presents technologies that can be used for transportation and processing (including resource recovery) of the waste Discusses reclamation, reuse, and recovery of energy from MSW

An Introduction to Electrical Engineering Materials - C S Indulkar

2008-01-01

A Textbook for the students of B.Sc.(Engg.), B.E., B.Tech., AMIE and Diploma Courses. A new chapter on

"Semiconductor Fabrication Technology and Miscellaneous Semiconductor Devices" had been included and additional self-assessment questions with answers and additional worked examples had been provided at the end of the BOOK.

Concrete Technology - Adam M. Neville
2010

The success of any concrete structure depends on the designer's sound knowledge of concrete and its behaviour under load, under temperature and humidity changes, and under exposure to the relevant environment and industrial conditions. This book gives students a thorough understanding of all aspects of concrete technology from first principles. It covers concrete ingredients, properties and behaviour in the finished structure with reference to national standards and recognised testing methods used in Britain, the European Union and the United States. Examples and problems

are given throughout to emphasise the important aspects of each chapter. An excellent coursebook for all students of Civil Engineering, Structural Engineering and Building at degree or diploma level, Concrete Technology will also be a valuable reference book for practising engineers in the field.

A Textbook On Professional Ethics And Human Values - R.S. Naagarazan
2007-12

This book is the fruition of four decades of teaching Mechanical Engineering subjects including Quality Engineering, Total Quality Management, and Principles of Management for the Bachelor and Master degree courses in Engineering at Annamalai University, and then in Arunai Engineering College, Tiruvannamalai, by the author. Frank and continual feed back from the distinguished students and esteemed colleagues of the author obtained during teaching, enthused him in

shaping this book into a valuable present to the scholars pursuing engineering. This book amply covers the updated syllabus of Professional Ethics by Anna University. Besides the basic human values, Codes of ethics of major Indian professional societies, detailed risk analysis with illustrative examples are included. Further, twenty four crisp case studies covering a wide spectrum of topics in Professional Ethics, short-answer questions, long-answer

questions with hints have been appended to sustain the interest of the engineering students. Besides the prescribed syllabus, ethics-related topics such as Social Acceptability SA 8000, Safety System OHSAS 18001 and Engineer-Manager interactions have also been explained. The student community as well as the teaching fraternity is certain to enjoy using this book, not only from the teaching-learning point of view, but also for their professional career and advancement.