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Chemical Engineering Design
Digital Electronics
Introduction to Information Retrieval
Industrial Automation and Robotics
Matrices in Engineering Problems
The Theory of Machines
Qualitative Research Methods for the Social
Sciences: Pearson New International Edition
Mathematics the First Step
Basic Mechanical Engineering
Computer Networking: A Top-Down Approach
Featuring the Internet, 3/e
Data Structures
Tread Upon the Lion the Story of Tommie
Titcombe
Manufacturing Processes
A Textbook of Strength of Materials
Fundamentals of Air Pollution Engineering
Kinematics of Machinery
Mihir's Handbook of Chemical Process
Engineering (Excerpts)
Engineering Mathematics - Ii
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TEXTBOOK OF FINITE ELEMENT ANALYSIS
MANUFACTURING PROCESS - II
CAD/CAM/CIM
Contracts & Accounts (WBSCTE)

The Constitution of India
Dynamics of Machinery
Environmental Engineering
Dynamics of Machinery
Signals & Systems
Introduction to Embedded Systems, Second
Edition
Fundamentals of Machine Design
Satellite Communications Systems Engineering
Unposted Letter (English)
Programming .NET Components
Building Construction
Elements of Mechanical Engineering(GTU)
An Introduction to Numerical Methods and
Analysis
Calculus
Design of Machine Elements - I
Elements of Mechanical.Engineering (PTU)

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**MASON
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Chemical
Engineering
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McGraw-Hill
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Company
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,Jala
ndhar.Howeve
r,it shall be
useful to
students of
other
Universities
also.The book
covers the
basic
principles of
Thermodynam
ics,zeroth law

of Thermodynamics and the concept of temperature in the first chapter.

Digital Electronics

Mercury Learning and Information An introduction to the engineering principles of embedded systems, with a focus on modeling, design, and analysis of cyber-physical systems. The most visible use of computers and software is processing information for human

consumption. The vast majority of computers in use, however, are much less visible. They run the engine, brakes, seatbelts, airbag, and audio system in your car. They digitally encode your voice and construct a radio signal to send it from your cell phone to a base station. They command robots on a factory floor, power generation in a power plant, processes in a chemical

plant, and traffic lights in a city. These less visible computers are called embedded systems, and the software they run is called embedded software. The principal challenges in designing and analyzing embedded systems stem from their interaction with physical processes. This book takes a cyber-physical approach to embedded systems, introducing the engineering

concepts underlying embedded systems as a technology and as a subject of study. The focus is on modeling, design, and analysis of cyber-physical systems, which integrate computation, networking, and physical processes. The second edition offers two new chapters, several new exercises, and other improvements. The book can be used as a textbook at the advanced

undergraduate or introductory graduate level and as a professional reference for practicing engineers and computer scientists. Readers should have some familiarity with machine structures, computer programming, basic discrete mathematics and algorithms, and signals and systems. **Introduction to Information Retrieval** Trans Tech Publications Ltd

Dynamics of machinery is concerned with the motion of the parts of the machines and the forces acting on these parts. Dynamic loads and undesired oscillations increase with higher speed of machines. At the same time, industrial safety standards require better vibration isolation. This book covers balancing of mechanisms, torsion vibrations, vibration isolation and the dynamic

behaviour of drives and machine frames as complex systems. Typical dynamic effects such as the gyroscopic effect, damping and absorption, shocks are explained using practical examples. The substantial benefit of this dynamics of machinery lies in the combination of theory and practical applications and the numerous descriptive examples based on

practical data. Our hope is that this book, through its careful explanations of concepts, practical examples and figures bridges the gap between knowledge and proper application of that knowledge. **Industrial Automation and Robotics** Springer Science & Business Media 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, 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. *Matrices in Engineering Problems* Laxmi Publications

The book strictly complies with the new syllabus of Gujrat Technological University, Ahmedabad, for B.E. First year of all braches of Engineering. The subject matter is presented in a graded stepwise, easytofollow style. Each chapter includes MupleChoice Questions, Review Questions and Exercises for easy recapitulation. **The Theory of Machines** John Wiley & Sons

Designed for a one-semester course in Finite Element Method, this compact and well-organized text presents FEM as a tool to find approximate solutions to differential equations. This provides the student a better perspective on the technique and its wide range of applications. This approach reflects the current trend as the present-day applications range from structures to biomechanics to electromagnetics, unlike in conventional texts that view FEM primarily as an extension of matrix methods of structural analysis. After an introduction and a review of mathematical preliminaries, the book gives a detailed discussion on FEM as a technique for solving differential equations and variational formulation of FEM. This is followed by a lucid presentation of one-dimensional and two-dimensional finite elements and finite element formulation for dynamics. The book concludes with some case studies that focus on industrial problems and Appendices that include mini-project topics based on near-real-life problems. Postgraduate/Senior undergraduate students of civil, mechanical and aeronautical engineering will find this text extremely

useful; it will also appeal to the practising engineers and the teaching community. Elsevier Volume is indexed by Thomson Reuters BCI (WoS). A forum of researchers, educators and engineers involved in various aspects of Machine Design provided the inspiration for this collection of peer-reviewed papers. The resultant dissemination of the latest research results, and

the exchange of views concerning the future research directions to be taken in this field will make the work of immense value to all those having an interest in the topics covered. The book reflects the cooperative efforts made in seeking out the best strategies for effecting improvements in the quality and the reliability of machines and machine parts and for extending

their fields of application. *Qualitative Research Methods for the Social Sciences: Pearson New International Edition* Technical Publications Effective from 2008-09 session, U.P.T.U. has introduced the subject of manufacturing processes for first year engineering students of all streams. This textbook covers the entire course material in a distilled form. *Mathematics the First Step* "O'Reilly

Media, Inc." This authoritative book, highly regarded for its intellectual quality and contributions provides a solid foundation and life-long reference for anyone studying the most important methods of modern signal and system analysis. The major changes of the revision are reorganization of chapter material and the addition of a much wider range of difficulties.

Basic

Mechanical Engineering

Pearson Educación
 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 . . ."
 —Mathematik a 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 advanced

undergraduate mathematics and engineering courses who are interested in gaining an understanding of numerical methods and numerical analysis.

Computer Networking: A Top-Down Approach Featuring the Internet, 3/e Morgan & Claypool Publishers
The first edition of Satellite Communications Systems Engineering (Wiley 2008) was written for those concerned

with the design and performance of satellite communications systems employed in fixed point to point, broadcasting, mobile, radio navigation, data relay, computer communications, and related satellite based applications. This welcome Second Edition continues the basic premise and enhances the publication with the latest updated information and new technologies

developed since the publication of the first edition. The book is based on graduate level satellite communications course material and has served as the primary text for electrical engineering Masters and Doctoral level courses in satellite communications and related areas. Introductory to advanced engineering level students in electrical, communications and wireless network

courses, and electrical engineers, communications engineers, systems engineers, and wireless network engineers looking for a refresher will find this essential text invaluable.

Data Structures

Courier Corporation
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, demultiplexers, 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,

<p>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.</p>	<p>Pearson Education India This book has been written with total focus on meeting the objectives of the subject 'Contracts and Accounts' as given by the syllabus of WBSCTE. The text has been written so as to create interest in the minds of students in learning further.</p>	<p>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</p>
<p>Tread Upon the Lion the Story of Tommie Titcombe</p>	<p><u>Manufacturing Processes</u> Vikas Publishing House About the Book: This book Engineering</p>	

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.

A Textbook of Strength of Materials

John Wiley & Sons Incorporated 'Programming .NET Components', second edition, updated to cover .NET 2.0.,

introduces the Microsoft .NET Framework for building components on Windows platforms. From its many lessons, tips, and guidelines, readers will learn how to use the .NET Framework to program reusable, maintainable, and robust components. *Fundamentals of Air Pollution Engineering* John Wiley & Sons The term design means to plan for the construction of an object or the formulation of

a plan for the satisfaction of need. The term machine design deals with the design of machines, their mechanisms and elements. Design of Machine Element (DME) may be defined as the selection of material and the dimensions for each geometrical parameter so that the element satisfies its function and undesirable effects are kept within the allowable limit. Machine

elements are basic mechanical parts and features used as the building blocks of most machines. This book provides a systematic exposition of the basic concepts and techniques involved in design of machine elements. This book covers design of important mechanical elements such as shafts, couplings, springs and power screws under static load. The design of welded and

threaded joints and the members subjected to fluctuating loads is also included in this book. Our hope is that this book, through its careful explanations of concepts, practical examples and figures bridges the gap between knowledge and proper application of that knowledge. [Kinematics of Machinery](#) Cambridge University Press Mechanical engineering, as its name

suggests, deals with the mechanics of operation of mechanical systems. This is the branch of engineering which includes design, manufacturing, analysis and maintenance of mechanical systems. It combines engineering physics and mathematics principles with material science to design, analyse, manufacture and maintain mechanical systems. This book covers the field requires an understanding

of core areas including thermodynamics, material science, manufacturing, energy conversion systems, power transmission systems and mechanisms. My hope is that this book, through its careful explanations of concepts, practical examples and figures bridges the gap between knowledge and proper application of that knowledge.

Mihir's Handbook of Chemical

Process Engineering (Excerpts)

Technical Publications

The book intended exclusively for the usage of students, teachers and persons who are related to competitive exams. The book is based on our experience over the past 8 years and design on the basis of current competitive level of Engineering like IIT JEE mains/ Advanced, MHT-CET, BITSAT + NTSE, KVPY,

Olympiad, IIT Foundation + CAT and other state engineering exams in India, where 1194938 i.e. around 12 Lakh of students (Year 2016) write a single engineering exam. As an educator, I understand the student's need of these topics and the difficulties faces by students in transition from standard 10th to 11th class. As students enter their 11th standard, they find a substantial change in the

course content and level of difficulty. They find some totally new concepts of Mathematics, widely used in Physics and Chemistry. They may be completely unfamiliar with concepts of absolute value, Interval Methods, Set Notation, inequalities etc. The book has been prepared for them to learn the concepts of algebra from basic to advanced level of thinking. The book is prepared to serve as a bridge for 10th to 11th standards, CAT aspirants etc. Software engineers can also be in benefit in writing the code due to concepts clarity. The book contains the following Learning Methodology.

(i) Basic concepts and easy learning.

(ii) Necessary examples and experiments for beginners level to expert.

(iii) Psychology of student's brain and their thinking.

(iv) Pictorial view of problems and solutions.

(v) Challenging problems (Ultimate Finish - for Top All India Rankers between 1 - 500).

(vi) Exercises and Assignments to test the understanding and growing knowledge.

(vii) Sample Test Paper to have experience before actual exam.

(viii) Puzzles and interactive learning to keep interest.

(ix) How to make notes to up-to-date and add your thinking inside the book.

(x)

<p>Archive of IIT-JEE Mains/Advanced. (xi) All types of questions (Single and Multi-correct, Integer Type, Comprehension, Assertion-reason, Matrix-Match) i.e Subjective and Objective both.</p> <p><i>Engineering Mathematics - I</i> John Wiley & Sons</p> <p>Class-tested and coherent, this textbook teaches classical and web information retrieval, including web search and the related areas of text</p>	<p>classification and text clustering from basic concepts. It gives an up-to-date treatment of all aspects of the design and implementation of systems for gathering, indexing, and searching documents; methods for evaluating systems; and an introduction to the use of machine learning methods on text collections. All the important ideas are explained using</p>	<p>examples and figures, making it perfect for introductory courses in information retrieval for advanced undergraduates and graduate students in computer science. Based on feedback from extensive classroom experience, the book has been carefully structured in order to make teaching more natural and effective. Slides and additional exercises (with solutions for lecturers)</p>
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are also available through the book's supporting website to help course instructors prepare their lectures.

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□□□□□□□□ PHI Learning Pvt. Ltd.

Dynamic loads and undesired oscillations increase with higher speed of machines. At the same time, industrial safety standards require better vibration reduction. This book covers model generation, parameter

identification, balancing of mechanisms, torsional and bending vibrations, vibration isolation, and the dynamic behavior of drives and machine frames as complex systems. Typical dynamic effects, such as the gyroscopic effect, damping and absorption, shocks, resonances of higher order, nonlinear and self-excited vibrations are explained using practical examples.

These include manipulators, flywheels, gears, mechanisms, motors, rotors, hammers, block foundations, presses, high speed spindles, cranes, and belts. Various design features, which influence the dynamic behavior, are described. The book includes 60 exercises with detailed solutions. The substantial benefit of this "Dynamics of Machinery" lies in the combination of theory and

practical
applications
and the
numerous
descriptive

examples
based on real-
world data.
The book

addresses
graduate
students as
well as
engineers.