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Traffic Engineering Handbook - ITE (Institute of Transportation Engineers) 2016-01-26
Get a complete look into modern traffic engineering solutions Traffic Engineering Handbook, Seventh Edition is a newly revised text that builds upon the reputation as the go-to source of essential traffic engineering solutions that this book has maintained for the past 70 years. The updated content reflects changes in

key industry standards, and shines a spotlight on the needs of all users, the design of context-sensitive roadways, and the development of more sustainable transportation solutions. Additionally, this resource features a new organizational structure that promotes a more functionally-driven, multimodal approach to planning, designing, and implementing transportation solutions. A branch of civil

engineering, traffic engineering concerns the safe and efficient movement of people and goods along roadways. Traffic flow, road geometry, sidewalks, crosswalks, cycle facilities, shared lane markings, traffic signs, traffic lights, and more—all of these elements must be considered when designing public and private sector transportation solutions. Explore the fundamental concepts of traffic engineering as they relate to operation, design, and management Access updated content that reflects changes in key industry-leading resources, such as the Highway Capacity Manual (HCM), Manual on Uniform Traffic Control Devices (MUTCD), AASHTO Policy on Geometric Design, Highway Safety Manual (HSM), and Americans with Disabilities Act Understand the current state of the traffic engineering field Leverage revised information that homes in on the key topics most relevant to traffic engineering in today's world, such as context-sensitive roadways and sustainable

transportation solutions Traffic Engineering Handbook, Seventh Edition is an essential text for public and private sector transportation practitioners, transportation decision makers, public officials, and even upper-level undergraduate and graduate students who are studying transportation engineering.

Diagnostic Radiology Physics - International Atomic Energy Agency 2013-03-01

This publication is aimed at students and teachers involved in programmes that train medical physicists for work in diagnostic radiology. It provides, in the form of a syllabus, a comprehensive overview of the basic medical physics knowledge required for the practice of modern diagnostic radiology. This makes it particularly useful for graduate students and residents in medical physics programmes. The material presented in the publication has been endorsed by the major international organisations and is the foundation for academic and clinical courses in both diagnostic radiology

physics and in emerging areas such as imaging in radiotherapy.

Basic Electrical Engineering -

The Scientist and Engineer's Guide to Digital Signal Processing - Steven W. Smith
1999

Fundamental of Chemical Engineering - 2011

Human Computer Interaction - Alan Dix 2008
The second edition of Human-Computer Interaction established itself as one of the classic textbooks in the area, with its broad coverage and rigorous approach, this new edition builds on the existing strengths of the book, but giving the text a more student-friendly slant and improving the coverage in certain areas. The revised structure, separating out the introductory and more advanced material will make it easier to use the book on a variety of courses. This new edition now includes chapters

on Interaction Design, Universal Access and Rich Interaction, as well as covering the latest developments in ubiquitous computing and Web technologies, making it the ideal text to provide a grounding in HCI theory and practice.

Mass-transfer Operations - Robert Ewald Treybal
1980

Engineering Mathematics II - Sergei Silvestrov
2017-02-10

This book highlights the latest advances in engineering mathematics with a main focus on the mathematical models, structures, concepts, problems and computational methods and algorithms most relevant for applications in modern technologies and engineering. It addresses mathematical methods of algebra, applied matrix analysis, operator analysis, probability theory and stochastic processes, geometry and computational methods in network analysis, data classification, ranking and optimisation. The individual chapters cover both

theory and applications, and include a wealth of figures, schemes, algorithms, tables and results of data analysis and simulation. Presenting new methods and results, reviews of cutting-edge research, and open problems for future research, they equip readers to develop new mathematical methods and concepts of their own, and to further compare and analyse the methods and results discussed. The book consists of contributed chapters covering research developed as a result of a focused international seminar series on mathematics and applied mathematics and a series of three focused international research workshops on engineering mathematics organised by the Research Environment in Mathematics and Applied Mathematics at Mälardalen University from autumn 2014 to autumn 2015: the International Workshop on Engineering Mathematics for Electromagnetics and Health Technology; the International Workshop on Engineering Mathematics, Algebra, Analysis and

Electromagnetics; and the 1st Swedish-Estonian International Workshop on Engineering Mathematics, Algebra, Analysis and Applications. It serves as a source of inspiration for a broad spectrum of researchers and research students in applied mathematics, as well as in the areas of applications of mathematics considered in the book.

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.

VALUATION OF REAL PROPERTIES - S. C. Rangwala 2008-01-01

An attempt has been made by the authors in this

treatise to explain in simple language the basic principles of Valuation of Real Properties. The subject matter of this edition has been thoroughly verified, revised and enlarged in 19 chapters. Appendix I deals with 32 important judgements and decisions pertaining to the subject. Appendix II contains 8 useful Valuation Tables. This revised edition contains 125 typical solved problems and more than 200 questions at the end of all the chapters. The subject of valuation has attained a high degree of importance at present and it is now accommodated in the syllabi of most of the Universities and Institutions. The subject matter is characterized by the clear, methodical and also step-by-step treatment. The presentation is comprehensive and easy-to-follow. It is hoped that the book in the present form would satisfy the need of the student community and also serve as the most useful reference book for practising valuers of real estates, tax consultants, lawyers, advocates, etc.

7 Years UPSC IAS/ IPS Mains General Studies Papers 1 - 4 Year-wise Solved (2013 - 2019) - Disha Experts 2019-10-21

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Applications of Internet of Things - Chi-Hua Chen 2021-08-16

This book introduces the Special Issue entitled “Applications of Internet of Things”, of ISPRS International Journal of Geo-Information. Topics covered in this issue include three main parts: (I) intelligent transportation systems (ITSs), (II) location-based services (LBSs), and (III) sensing techniques and applications. Three papers on ITSs are as follows: (1) “Vehicle positioning and speed estimation based on cellular network signals for urban roads,” by Lai and Kuo; (2) “A method for traffic congestion clustering judgment based on grey relational analysis,” by Zhang et al.; and (3) “Smartphone-based pedestrian’s avoidance behavior recognition

towards opportunistic road anomaly detection,” by Ishikawa and Fujinami. Three papers on LBSs are as follows: (1) “A high-efficiency method of mobile positioning based on commercial vehicle operation data,” by Chen et al.; (2) “Efficient location privacy-preserving k-anonymity method based on the credible chain,” by Wang et al.; and (3) “Proximity-based asynchronous messaging platform for location-based Internet of things service,” by Gon Jo et al. Two papers on sensing techniques and applications are as follows: (1) “Detection of electronic anklet wearers’ groupings throughout telematics monitoring,” by Machado et al.; and (2) “Camera coverage estimation based on multistage grid subdivision,” by Wang et al.

Data Communications and Networking - Behrouz A. Forouzan 2001-07

Industry 4.0 - Jesús Hamilton Ortiz 2020-03-25

This book shows a vision of the present and future of Industry 4.0 and identifies and

examines the most pressing research issue in Industry 4.0. Containing the contributions of leading researchers and academics, this book includes recent publications in key areas of interest, for example: a review on the Industry 4.0: What is the Industry 4.0, the pillars of Industry 4.0, current and future trends, technologies, taxonomy, and some case studies (A.U.T.O 4.0, stabilization of digitized process). This book also provides an essential tool in the process of migration to Industry 4.0. The book is suitable as a text for graduate students and professionals in the industrial sector and general engineering areas. The book is organized into two sections: 1. Reviews 2. Case Studies Industry 4.0 is likely to play an important role in the future society. This book is a good reference on Industry 4.0 and includes some case studies. Each chapter is written by expert researchers in the sector, and the topics are broad; from the concept or definition of Industry 4.0 to a future society 5.0.

Theory of Structures - RS Khurmi | N Khurmi
2000-11

I feel elevated in presenting the New edition of this standard treatise. The favourable reception, which the previous edition and reprints of this book have enjoyed, is a matter of great satisfaction for me. I wish to express my sincere thanks to numerous professors and students for their valuable suggestions and recommending the patronise this standard treatise in the future also.

Machine Design: An Integrated Approach,
2/E - Norton 2000-09

Electricity and Magnetism - Edward M.
Purcell 2013-01-21

For 50 years, Edward M. Purcell's classic textbook has introduced students to the world of electricity and magnetism. The third edition has been brought up to date and is now in SI units. It features hundreds of new examples, problems, and figures, and contains discussions of real-life

applications. The textbook covers all the standard introductory topics, such as electrostatics, magnetism, circuits, electromagnetic waves, and electric and magnetic fields in matter. Taking a nontraditional approach, magnetism is derived as a relativistic effect. Mathematical concepts are introduced in parallel with the physics topics at hand, making the motivations clear.

Macroscopic phenomena are derived rigorously from the underlying microscopic physics. With worked examples, hundreds of illustrations, and nearly 600 end-of-chapter problems and exercises, this textbook is ideal for electricity and magnetism courses. Solutions to the exercises are available for instructors at www.cambridge.org/Purcell-Morin.

Nondestructive Testing of Materials - Roy
Collins 1995

This book reviews the current state of all types of electromagnetic testing techniques and considers the implications of innovations for

future inspection practice both in Europe and Japan. This volume provides researchers with an overview of exchanges on the subjects of ACPD and ACFM from both Japanese and continental perspectives. For instance: the Japanese project of applied electromagnetic theory to inspect nuclear power plants and the theory of signal inversion for flaw identification. Topics covered are: - Inversion, imaging and flaw reconstruction - Advanced signal processing - Artificial intelligence and neural networks - Modelling, simulation and benchmark problems - Reliability of inspections, new techniques and novel sensors - Automation of data acquisition and processing

The work covers a wide range of disciplines and will therefore serve a large number of researchers of electromagnetic theory for the next millennium.

Industrial Safety Management - L M

Deshmukh 2005

The book is meant for safety professionals, line managers, trainers, HR professionals and heads

of industrial establishments. From identification of common potential hazards, associated with entry into a confined space, falls and slips, electrocution, uncontrolled release of hazardous energies, material handling, disposal of waste materials, working with tractors, forklifts, gas cylinders and corrosive substances- the book is a repository of experiences, hazards and lapses. It includes materials that can be used for training and development of workers and professionals. Most exclusively, it contains in-depth case histories, often true, unfortunate incidents on thoroughly investigated and properly analysed Surveillance Findings and Investigative Case Reports.

Fiber-optic Communication Systems - Govind

P. Agrawal 2002

CD-ROM contains: a software package for designing fiber-optic communication systems called "OptiSystem Lite" and a set of problems for each chapter.

Power System - BR Gupta 2008

It is gratifying to note that the book has very widespread acceptance by faculty and students throughout the country. In the revised edition some new topics have been added. Additional solved examples have also been added. The data of transmission system in India has been updated.

CNC Machines - B. S. Pabla 1994

Fundamentals of Electrical Engineering -

Leonard S. Bobrow 1996

Divided into four parts: circuits, electronics, digital systems, and electromagnetics, this text provides an understanding of the fundamental principles on which modern electrical engineering is based. It is suitable for a variety of electrical engineering courses, and can also be used as a text for an introduction to electrical engineering.

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.

Renewable Energy Resources - John Twidell
2006

"This second edition maintains the book's basis on fundamentals, whilst including experience gained from the rapid growth of renewable energy technologies as secure national resources and for climate change mitigation, more extensively illustrated with case studies and worked problems. The presentation has been improved throughout, along with a new

chapter on economics and institutional factors. Each chapter begins with fundamental theory from a scientific perspective, then considers applied engineering examples and developments, and includes a set of problems and solutions and a bibliography of printed and web-based material for further study. Common symbols and cross referencing apply throughout, essential data are tabulated in appendices. Sections on social and environmental aspects have been added to each technology chapter." -- back cover.

Estimating Construction Costs - Robert Leroy Peurifoy 2001-12-01

Robert Peurifoy was a giant in the field of construction engineering and authored several books during his lifetime. This book last published in 1989 and will capitalize on the well-known name of the author. In this edition, computer calculations of costs and of modeling have been added as well as updated statistics, computer related examples and new problems.

Civil, Environmental, and Construction Management Engineering Majors and Professionals will benefit from having this title on their shelf. This edition retains the conceptual strengths of the Peurifoy approach and organization from the previous edition but the new problems and computer-based examples and new up-to-date construction data make it the only choice in academia or industry.

Fluid Mechanics and Machinery - C. S. P. Ojha 2010-11-01

Fluid Mechanics and Machinery features exhaustive coverage of the essential concepts of the mechanics of fluids, both static and dynamic. It also provides an overview of the design and operation of various hydraulic machines such as pumps and turbines. The book also features numerous solved examples in order to help students grasp the fundamentals and apply them to real-life situations. Beginning with discussion of the properties of fluids, Fluid Mechanics and Machinery gives detailed information on topics

such as fluid pressure and its measurement, principles of buoyancy and flotation, and fluid statics, kinematics, and dynamics. It then moves on to discuss dimensional analysis and flow of fluids through orifices, mouthpieces, and pipes, and over notches and weirs. More advanced topics such as vortex flow, impact of jets, and flow of compressible fluids are then dealt with in separate chapters. Finally, a thorough overview of the design and operation of various fluid machines such as pumps and turbines explains the practical applications of fluid forces to students.

Switchgear and Protection - J. B. Gupta 2015

Discrete Mathematics - Oscar Levin 2018-12-31
Note: This is the 3rd edition. If you need the 2nd edition for a course you are taking, it can be found as a "other format" on amazon, or by searching its isbn: 1534970746 This gentle introduction to discrete mathematics is written for first and second year math majors, especially

those who intend to teach. The text began as a set of lecture notes for the discrete mathematics course at the University of Northern Colorado. This course serves both as an introduction to topics in discrete math and as the "introduction to proof" course for math majors. The course is usually taught with a large amount of student inquiry, and this text is written to help facilitate this. Four main topics are covered: counting, sequences, logic, and graph theory. Along the way proofs are introduced, including proofs by contradiction, proofs by induction, and combinatorial proofs. The book contains over 470 exercises, including 275 with solutions and over 100 with hints. There are also Investigate! activities throughout the text to support active, inquiry based learning. While there are many fine discrete math textbooks available, this text has the following advantages: It is written to be used in an inquiry rich course. It is written to be used in a course for future math teachers. It is open source, with low cost print editions and

free electronic editions. This third edition brings improved exposition, a new section on trees, and a bunch of new and improved exercises. For a complete list of changes, and to view the free electronic version of the text, visit the book's website at discrete.openmathbooks.org

Electrical Power Transmission and Distribution - Marko Silver 2017-06-13

Electrical power transmission and distribution are an important area of electrical engineering. This book on electrical power transmission and distribution takes into account the layout, design and manufacture of components that form an electrical grid. There has been rapid progress in this field and its applications are finding their way across multiple industries. Contents included in this book aim to facilitate a comprehensive knowledge in the fields of electrical engineering and efficient electricity generation and consumption. This book is a vital tool for all researching or studying electricity transmission as it gives incredible insights into

emerging trends and concepts. The readers would gain knowledge that would broaden their perspective about this field.

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.

Applied Chemistry Theory And Practice - Vermani O P 1989

Exploring C for Microcontrollers - Jivan Parab 2007-05-31

Unlike traditional embedded systems references, this book skips routine things to focus on programming microcontrollers, specifically MCS-51 family in 'C' using Keil IDE. The book presents seventeen case studies plus many basic programs organized around on-chip resources.

This "learn-through-doing" approach appeals to busy designers. Mastering basic modules and working hands-on with the projects gives readers the basic building blocks for most 8051 programs. Whether you are a student using MCS-51 microcontrollers for project work or an embedded systems programmer, this book will kick-start your practical understanding of the most popular microcontroller, bridging the gap between microcontroller hardware experts and C programmers.

MAINTENANCE OF ELECTRICAL EQUIPMENTS (22625) - M. A. Chaudhari 2020

ENGINEERING GRAPHICS - K. C. JOHN 2009-07-13

This book provides a detailed study of geometrical drawing through simple and well-explained worked-out examples and exercises. This book is designed for students of first year Engineering Diploma course, irrespective of their branches of study. The book is divided into

seven modules. Module A covers the fundamentals of manual drafting, lettering, freehand sketching and dimensioning of views. Module B describes two-dimensional drawings like geometrical constructions, conics, miscellaneous curves and scales. Three-dimensional drawings, such as projections of points, lines, plane lamina, geometrical solids and their different sections are well-explained in Module C. Module D deals with intersection of surfaces and their developments. Drawing of pictorial views is illustrated in Module E, which includes isometric projection, oblique projection and perspective projections. The fundamentals of machine drawing are covered in Module F. Finally, in Module G, the book introduces computer-aided drafting (CAD) to make the readers familiar with the state-of-the-art techniques of drafting. **KEY FEATURES :** Follows the International Standard Organization (ISO) code of practice for drawing. Includes a large number of dimensioned illustrations, worked-out

examples, and Polytechnic questions and answers to explain the geometrical drawing process. Contains chapter-end exercises to help students develop their drawing skills.

Electronic Mechanic - National Learning Corporation 2007

The Electronic Mechanic; Passbook(R) prepares you for your test by allowing you to take practice exams in the subjects you need to study. It provides hundreds of questions and answers in the areas that will likely be covered on your upcoming exam, including but not limited to: basic electronics including circuitry, schematics, and wiring diagrams; use of electronic test equipment; operation, maintenance, and repair of equipment used in instrumentation including meters, sensors, indicators, recorders, and data acquisition equipment; understanding and interpreting technical material; mathematics including algebra, geometry and trigonometry; and more.

Unit Operations-i Fluid Flow and Mechanical

Operations -

Ziemer 1976

Principles of Communications - Rodger E.

Soil as an Engineering Material - Wesley G.
Holtz 1969