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Basic Engineering Mathematics

“Engineering Fluid Dynamics 2018”. The topic of engineering fluid dynamics includes both experimental as well as computational studies. Of special interest were submissions from the fields of mechanical, chemical, marine, safety, and energy engineering. We welcomed both original research articles as well as review articles. After one year, 28 papers were submitted and 14 were accepted for publication. The average processing time was 37.91 days. The authors had the following geographical distribution: China (9); Korea (3); Spain (1); and India (1). Papers covered a wide range of topics, including analysis of fans, turbines, fires in tunnels, vortex generators, deep sea mining, as well as pumps.

Introductory Mining Engineering

A new approach to safety, based on systems thinking, that is more effective, less costly, and easier to use than current techniques. Engineering has experienced a technological revolution, but the basic engineering techniques applied in safety

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and reliability engineering, created in a simpler, analog world, have changed very little over the years. In this groundbreaking book, Nancy Leveson proposes a new approach to safety--more suited to today's complex, sociotechnical, software-intensive world--based on modern systems thinking and systems theory. Revisiting and updating ideas pioneered by 1950s aerospace engineers in their System Safety concept, and testing her new model extensively on real-world examples, Leveson has created a new approach to safety that is more effective, less expensive, and easier to use than current techniques. Arguing that traditional models of causality are inadequate, Leveson presents a new, extended model of causation (Systems-Theoretic Accident Model and Processes, or STAMP), then shows how the new model can be used to create techniques for system safety engineering, including accident analysis, hazard analysis, system design, safety in operations, and management of safety-critical systems. She applies the new techniques to real-world events including the friendly-fire loss of a U.S. Blackhawk helicopter in the first Gulf War; the Vioxx recall; the U.S. Navy SUBSAFE program; and the bacterial contamination of a public water supply in a Canadian town. Leveson's approach is relevant even beyond safety engineering, offering techniques for "reengineering" any large sociotechnical system to improve safety and manage risk.

(FREE SAMPLE) GATE 2020 Mechanical Engineering Guide with

10 Practice Sets (6 in Book + 4 Online) 7th edition

Advanced Linear Algebra

Engineering Mathematics covers the four mathematics papers that are offered to undergraduate students of engineering. With an emphasis on problem-solving techniques and engineering applications, as well as detailed explanations of the mathematical concepts, this book will give the students a complete grasp of the mathematical skills that are needed by engineers.

Engineering Fluid Dynamics 2018

Appropriate for one- or two-semester Advanced Engineering Mathematics courses in departments of Mathematics and Engineering. This clear, pedagogically rich book develops a strong understanding of the mathematical principles and practices that today's engineers and scientists need to know. Equally effective as either a textbook or reference manual, it approaches mathematical concepts from a practical-use perspective making physical applications more vivid and substantial. Its comprehensive instructional framework supports a conversational, down-to-earth narrative style offering easy accessibility and frequent opportunities for

application and reinforcement.

Geotechnical Engineering

"Mechanical Engineering Principles offers a student-friendly introduction to core engineering topics that does not assume any previous background in engineering studies, and as such can act as a core textbook for several engineering courses. Bird and Ross introduce mechanical principles and technology through examples and applications rather than theory. This approach enables students to develop a sound understanding of the engineering principles and their use in practice. Theoretical concepts are supported by over 600 problems and 400 worked answers. The new edition will match up to the latest BTEC National specifications and can also be used on mechanical engineering courses from Levels 2 to 4"--

Cracking the Tech Career

An Introduction to Mechanical Engineering

Designed for advanced undergraduate and beginning graduate students in linear or abstract algebra, Advanced Linear Algebra covers theoretical aspects of the

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subject, along with examples, computations, and proofs. It explores a variety of advanced topics in linear algebra that highlight the rich interconnections of the subject to geometry, algebra, analysis, combinatorics, numerical computation, and many other areas of mathematics. The book's 20 chapters are grouped into six main areas: algebraic structures, matrices, structured matrices, geometric aspects of linear algebra, modules, and multilinear algebra. The level of abstraction gradually increases as students proceed through the text, moving from matrices to vector spaces to modules. Each chapter consists of a mathematical vignette devoted to the development of one specific topic. Some chapters look at introductory material from a sophisticated or abstract viewpoint while others provide elementary expositions of more theoretical concepts. Several chapters offer unusual perspectives or novel treatments of standard results. Unlike similar advanced mathematical texts, this one minimizes the dependence of each chapter on material found in previous chapters so that students may immediately turn to the relevant chapter without first wading through pages of earlier material to access the necessary algebraic background and theorems. Chapter summaries contain a structured list of the principal definitions and results. End-of-chapter exercises aid students in digesting the material. Students are encouraged to use a computer algebra system to help solve computationally intensive exercises.

Direct Current Fundamentals

Engineering a Safer World

A thorough and exhaustive presentation of theoretical analysis and practical techniques for the small-signal analysis and control of large modern electric power systems as well as an assessment of their stability and damping performance.

An Introduction to Electrochemistry

Books on Science and Engineering Suggested for Small Public Libraries by the Wisconsin Free Library Commission

Become the applicant Google can't turn down Cracking the Tech Career is the job seeker's guide to landing a coveted position at one of the top tech firms. A follow-up to The Google Resume, this book provides new information on what these companies want, and how to show them you have what it takes to succeed in the role. Early planners will learn what to study, and established professionals will discover how to make their skillset and experience set them apart from the crowd. Author Gayle Laakmann McDowell worked in engineering at Google, and interviewed over 120 candidates as a member of the hiring committee ? in this book, she shares her perspectives on what works and what doesn't, what makes

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you desirable, and what gets your resume saved or deleted. Apple, Microsoft, and Google are the coveted companies in the current job market. They field hundreds of resumes every day, and have their pick of the cream of the crop when it comes to selecting new hires. If you think the right alma mater is all it takes, you need to update your thinking. Top companies, especially in the tech sector, are looking for more. This book is the complete guide to becoming the candidate they just cannot turn away. Discover the career paths that run through the top tech firms Learn how to craft the perfect resume and prepare for the interview Find ways to make yourself stand out from the hordes of other applicants Understand what the top companies are looking for, and how to demonstrate that you're it These companies need certain skillsets, but they also want a great culture fit. Grades aren't everything, experience matters, and a certain type of applicant tends to succeed. Cracking the Tech Career reveals what the hiring committee wants, and shows you how to get it.

Understanding Machine Learning

Engineering Optimization

For nearly half a century, this widely acclaimed text has presented the

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fundamental concepts of direct current electricity and magnetism in a straightforward, practical manner. This reader-friendly guide to DC electrical theory and applications is both thorough and focused, providing detailed coverage in a convenient, affordable volume. The new Eighth Edition retains the distinguishing features that are the cornerstone of this trusted text, including logically organized content that progresses step-by-step from basic principles to advanced concepts. Enhancements for the new edition include updated photographs and illustrations to help readers grasp essential concepts quickly and apply their knowledge with confidence, as well as special icons highlighting green tips on energy efficiency. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Highway Engineering Handbook, 2e

A major American intellectual and “one of the right’s most gifted and astute journalists” (The New York Times Book Review) makes the historical case that the reforms of the 1960s, reforms intended to make the nation more just and humane, left many Americans feeling alienated, despised, misled—and ready to put an adventurer in the White House. Christopher Caldwell has spent years studying the liberal uprising of the 1960s and its unforeseen consequences and his conclusion is this: even the reforms that Americans love best have come with costs that are staggeringly high—in wealth, freedom, and social stability—and that have been

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spread unevenly among classes and generations. Caldwell reveals the real political turning points of the past half-century, taking you on a roller-coaster ride through Playboy magazine, affirmative action, CB radio, leveraged buyouts, iPhones, Oxycotin, Black Lives Matter, and internet cookies. In doing so, he shows that attempts to redress the injustices of the past have left Americans living under two different ideas of what it means to play by the rules. Essential, timely, hard to put down, *The Age of Entitlement* “is an eloquent and bracing book, full of insight” (New York magazine) about how the reforms of the past fifty years gave the country two incompatible political systems—and drove it toward conflict.

Concepts in Electric Circuits

Now in its seventh edition, *Basic Engineering Mathematics* is an established textbook that has helped thousands of students to succeed in their exams. Mathematical theories are explained in a straightforward manner, being supported by practical engineering examples and applications in order to ensure that readers can relate theory to practice. The extensive and thorough topic coverage makes this an ideal text for introductory level engineering courses. This title is supported by a companion website with resources for both students and lecturers, including lists of essential formulae, multiple choice tests, and full solutions for all 1,600 further questions.

Books and Culture

An introductory text and reference on mining engineering highlighting the latest in mining technology. Introductory Mining Engineering outlines the role of the mining engineer throughout the life of a mine, including prospecting for the deposit, determining the site's value, developing the mine, extracting the mineral values, and reclaiming the land afterward. This Second Edition is written with a focus on sustainability—managing land to meet the economic and environmental needs of the present while enhancing its ability to also meet the needs of future generations. Coverage includes aboveground and underground methods of mining for a wide range of substances, including metals, nonmetals, and fuels. Completely up to date, this book presents the latest information on such technologies as remote sensing, GPS, geophysical surveying, and mineral deposit evaluation, as well as continuous integrated mining operations and autonomous trucks. Also included is new information on landscape restoration, regional planning, wetlands protection, subsidence mitigation, and much more. New chapters include coverage of: * Environmental responsibilities * Regulations * Health and safety issues. Generously supplemented with more than 200 photographs, drawings, and tables, Introductory Mining Engineering, Second Edition is an indispensable book for mining engineering students and a comprehensive reference for professionals.

Textbook of Engineering Drawing

AN INTRODUCTION TO MECHANICAL ENGINEERING, 4E introduces readers to today's ever-emerging field of mechanical engineering as it instills an appreciation for how engineers design hardware that builds and improves societies around the world. This book is ideal for those completing their first or second year in a college or university's mechanical engineering program. It is also useful for those studying a closely related field. The authors effectively balance timely treatments of technical problem-solving skills, design, engineering analysis, and modern technology to provide the solid mechanical engineering foundation readers need for future success. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Engineer

An unsettling cold case investigation ensnares Cormoran Strike and his partner in a web of dangerous secrets in this #1 New York Times bestseller -- "Rowling's wizardry as a writer is on fulsome display" (USA Today). When a troubled young man named Billy asks Cormoran Strike to help him investigate a crime he witnessed as a child, the private eye is left deeply troubled. While Billy is obviously mentally distressed and cannot remember many concrete details, there is

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something sincere about him and his story. But before Strike can question him further, Billy bolts from his office in a panic. Trying to get to the bottom of Billy's story, Strike and Robin Ellacott -- once his assistant, now a partner in the agency -- set off on a twisting trail that leads them through the backstreets of London, into a secretive inner sanctum within Parliament, and to a beautiful but sinister manor house deep in the countryside. And during this labyrinthine investigation, Strike's own life is far from straightforward. His newfound fame as a private eye means he can no longer operate behind the scenes as he once did. Plus, his relationship with his former assistant is more fraught than it ever has been; Robin is now invaluable to Strike in the business, but their personal relationship is much, much trickier than that. The most epic Robert Galbraith novel yet, *Lethal White* is "addictive, murderous fun" for British mystery lovers and crime fiction fans alike (Vox).

(FREE SAMPLE) GATE 2020 Civil Engineering Guide with 10 Practice Sets (6 in Book + 4 Online) 7th edition

Salient Features: Provided simple step by step explanations to motivate self study of the subject. Free hand sketching techniques are provided. Worksheets for free hand practice are provided. A new chapter on Computer Aided Design and Drawing (CADD) is added.

Geotechnical Engineering

Physics of Dielectrics for the Engineer is a systematic attempt to clarify and correlate advanced concepts underlying the physics of dielectrics. It reviews the basics of electrostatics, the different models for the polarizability of atoms and molecules, and the macroscopic permittivity. It also discusses the behavior of matter in an alternating field in relation to complex permittivity, the interactions between field and matter, dissipative effects under high electric fields, the wide-gap semiconductor model, the types of charge carriers, and the main disruptive processes. Organized into three parts encompassing 12 chapters, this volume begins with an overview of the physical concepts involved in the behavior of insulating materials subjected to high electric fields. It then explores the potential of a group of charges, and dipoles induced in an applied field. The book explains statistical theories of dipole orientation in an applied field and theories relating molecular and macroscopic quantities. The propagation of an electromagnetic wave, dipole relaxation of defects in crystal lattices, and space-charge polarization and relaxation are also discussed. The book explains the uni-dimensional polar lattice, intrinsic and impurity conduction in wide-gap semiconductors, thermal runaway, and collision breakdown. Many problems with corresponding solutions are included to assist the reader. This book will benefit electrical engineers, as well as electrical engineering students, scientists, and technicians.

Lethal White

Introduces machine learning and its algorithmic paradigms, explaining the principles behind automated learning approaches and the considerations underlying their usage.

Supplementary Catalogue of Books Added to the San Francisco Free Public Library Since May, 1884. No. 5, 1888

The Civil Engineering Handbook, Second Edition

Mechanical Engineering Principles

This book presents the basic concepts used in the design and analysis of digital systems and introduces the principles of digital computer organization and design.

Programming .NET Components

A Rigorous Mathematical Approach To Identifying A Set Of Design Alternatives And

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Selecting The Best Candidate From Within That Set, Engineering Optimization Was Developed As A Means Of Helping Engineers To Design Systems That Are Both More Efficient And Less Expensive And To Develop New Ways Of Improving The Performance Of Existing Systems. Thanks To The Breathtaking Growth In Computer Technology That Has Occurred Over The Past Decade, Optimization Techniques Can Now Be Used To Find Creative Solutions To Larger, More Complex Problems Than Ever Before. As A Consequence, Optimization Is Now Viewed As An Indispensable Tool Of The Trade For Engineers Working In Many Different Industries, Especially The Aerospace, Automotive, Chemical, Electrical, And Manufacturing Industries. In Engineering Optimization, Professor Singiresu S. Rao Provides An Application-Oriented Presentation Of The Full Array Of Classical And Newly Developed Optimization Techniques Now Being Used By Engineers In A Wide Range Of Industries. Essential Proofs And Explanations Of The Various Techniques Are Given In A Straightforward, User-Friendly Manner, And Each Method Is Copiously Illustrated With Real-World Examples That Demonstrate How To Maximize Desired Benefits While Minimizing Negative Aspects Of Project Design. Comprehensive, Authoritative, Up-To-Date, Engineering Optimization Provides In-Depth Coverage Of Linear And Nonlinear Programming, Dynamic Programming, Integer Programming, And Stochastic Programming Techniques As Well As Several Breakthrough Methods, Including Genetic Algorithms, Simulated Annealing, And Neural Network-Based And Fuzzy Optimization Techniques. Designed To Function Equally Well As Either A Professional Reference

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Or A Graduate-Level Text, Engineering Optimization Features Many Solved Problems Taken From Several Engineering Fields, As Well As Review Questions, Important Figures, And Helpful References. Engineering Optimization Is A Valuable Working Resource For Engineers Employed In Practically All Technological Industries. It Is Also A Superior Didactic Tool For Graduate Students Of Mechanical, Civil, Electrical, Chemical And Aerospace Engineering.

(FREE SAMPLE) GATE 2020 Electrical Engineering Guide with 10 Practice Sets (6 in Book + 4 Online) 7th edition

Free Sample) Guide to RRB Junior Engineer Stage II Electrical and Allied Engineering

* Compiles all the data necessary for efficient and cost-effective highway design, building, rehabilitation, and maintenance * Includes metric units and the latest AASHTO (American Association of State Highway Transportation Officials) design codes

The Age of Entitlement

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Geotechnical Engineering: Principles and Practices, 2/e, is ideal for junior-level soil mechanics or introductory geotechnical engineering courses. This introductory geotechnical engineering textbook explores both the principles of soil mechanics and their application to engineering practice. It offers a rigorous, yet accessible and easy-to-read approach, as well as technical depth and an emphasis on understanding the physical basis for soil behavior. The second edition has been revised to include updated content and many new problems and exercises, as well as to reflect feedback from reviewers and the authors' own experiences.

Basic Electronics

Guide to RRB Junior Engineer Stage II Electrical & Allied Engineering 3rd Edition covers all the 5 sections including the Technical Ability Section in detail. • The book covers the complete syllabus as prescribed in the latest notification. • The book is divided into 5 sections which are further divided into chapters which contains theory explaining the concepts involved followed by Practice Exercises. • The Technical section is divided into 11 chapters. • The book provides the Past 2015 & 2014 Solved questions at the end of each section. • The book is also very useful for the Section Engineering Exam.

Digital Logic and Computer Design

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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.

Physics of Dielectrics for the Engineer

Catalogue of the Liverpool Free Public Library Reference Department : Books received from Jan. 1871 to Dec. 1880

'Programming .NET Components', second edition, updated to cover .NET 2.0.,

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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.

The Essentials of Modern Software Engineering

Excel Data Analysis

Now in its eighth edition, Higher Engineering Mathematics has helped thousands of students succeed in their exams. Theory is kept to a minimum, with the emphasis firmly placed on problem-solving skills, making this a thoroughly practical introduction to the advanced engineering mathematics that students need to master. The extensive and thorough topic coverage makes this an ideal text for upper-level vocational courses and for undergraduate degree courses. It is also supported by a fully updated companion website with resources for both students and lecturers. It has full solutions to all 2,000 further questions contained in the 277 practice exercises.

Higher Engineering Mathematics

Engineering Mathematics

Many of the earliest books, particularly those dating back to the 1900s and before, are now extremely scarce and increasingly expensive. We are republishing these classic works in affordable, high quality, modern editions, using the original text and artwork.

Advanced Engineering Mathematics

This book offers a comprehensive and readable introduction to modern business and data analytics. It is based on the use of Excel, a tool that virtually all students and professionals have access to. The explanations are focused on understanding the techniques and their proper application, and are supplemented by a wealth of in-chapter and end-of-chapter exercises. In addition to the general statistical methods, the book also includes Monte Carlo simulation and optimization. The second edition has been thoroughly revised: new topics, exercises and examples have been added, and the readability has been further improved. The book is primarily intended for students in business, economics and government, as well as professionals, who need a more rigorous introduction to business and data analytics – yet also need to learn the topic quickly and without overly academic

explanations.

Small-signal stability, control and dynamic performance of power systems

The first course in software engineering is the most critical. Education must start from an understanding of the heart of software development, from familiar ground that is common to all software development endeavors. This book is an in-depth introduction to software engineering that uses a systematic, universal kernel to teach the essential elements of all software engineering methods. This kernel, Essence, is a vocabulary for defining methods and practices. Essence was envisioned and originally created by Ivar Jacobson and his colleagues, developed by Software Engineering Method and Theory (SEMAT) and approved by The Object Management Group (OMG) as a standard in 2014. Essence is a practice-independent framework for thinking and reasoning about the practices we have and the practices we need. Essence establishes a shared and standard understanding of what is at the heart of software development. Essence is agnostic to any particular method, lifecycle independent, programming language independent, concise, scalable, extensible, and formally specified. Essence frees the practices from their method prisons. The first part of the book describes Essence, the essential elements to work with, the essential things to do and the

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essential competencies you need when developing software. The other three parts describe more and more advanced use cases of Essence. Using real but manageable examples, it covers the fundamentals of Essence and the innovative use of serious games to support software engineering. It also explains how current practices such as user stories, use cases, Scrum, and micro-services can be described using Essence, and illustrates how their activities can be represented using the Essence notions of cards and checklists. The fourth part of the book offers a vision how Essence can be scaled to support large, complex systems engineering. Essence is supported by an ecosystem developed and maintained by a community of experienced people worldwide. From this ecosystem, professors and students can select what they need and create their own way of working, thus learning how to create ONE way of working that matches the particular situation and needs.

Practical Engineer

Established as a standard textbook for students of geotechnical engineering, this second edition of Geotechnical Engineering provides a solid grounding in the mechanics of soils and soil-structure interaction. Renato Lancellotta gives a clear presentation of the fundamental principles of soil mechanics and demonstrates how these principles are

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