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Fox and McDonald's Introduction to Fluid Mechanics, Cengel's Continuum Mechanics and Plasticity, Standard Handbook for Electrical Engineers, Aircraft Structures for Engineering Students, Foundation Design, Precision Manufacturing, Advanced Mechanics of Materials, Physics of Continuous Matter, Second Edition, CONTROL (With CD), Model Order Reduction: Theory, Research Aspects and Applications, Principles of Metal Manufacturing Processes, Laser Cutting Technology, American Woodworker, Springer Handbook of Mechanical Engineering, Introduction to Fuzzy Logic using MATLAB, American Woodworker, Dynamic Modeling and Control of Engineering Systems, Introduction to Control Engineering, Computer-Controlled Systems, Shallow Foundations, Non-Newtonian Flow and Applied Rheology, Mathematical Methods for Physicists, Springer Embedded Digital Control with Microcontroller, A Monte Carlo Primer, Mechanical Design of Electric Motors, Signals and Systems (Edition 3.0), Chemical Engineering, Volume 1, Introduction to Genetic Algorithms, Cylindrical and Pressure Vessels, Control Engineering, Renewable Energy Focus e-Mega Handbook, Block Woodworking, Helen of the Old House, Convergent Cognitive Information Technology, RoboCup 2009: Robot Soccer World Cup Analysis and Synthesis of Reset Control Systems, Introduction to Robotics, Robust Control Design 2000 (ROCOND 2000)

American Woodworker Mar 22 2022 American Woodworker magazine, A New Track Media publication, has been the premier publication for woodworkers all across America for 25 years. We are committed to providing woodworkers like you with the most accurate and up-to-date plans and information -- including new ideas, product and tool reviews, workshop tips and much, much more.

Computer-Controlled Systems Sep 15 2021 This volume features computational tools that can be applied directly and are explained with simple calculations, plus an emphasis on control system principles and ideas. Includes worked examples, MATLAB macros, and solutions manual.

American Woodworker Dec 19 2021 American Woodworker magazine, A New Track Media publication, has been the premier publication for woodworkers all across America for 25 years. We are committed to providing woodworkers like you with the most accurate and up-to-date plans and information -- including new ideas, product and tool reviews, workshop tips and much, much more.

Non-Newtonian Flow and Applied Rheology July 14 2021 This book bridges the gap between the theoretical work of the rheologist, and the practical needs of those who have to design and operate the systems in which these materials are handled or processed. It is an established and important reference for senior level mechanical engineers, chemical and process engineers, as well as any engineer or scientist who needs to study or work with these fluids, including pharmaceutical engineers, mineral processing engineers, medical researchers, water and civil engineers. This new edition covers a considerably broader range of topics than its predecessor, including computational fluid dynamics modelling techniques, liquid/solid flows and applications to areas such as food processing, among others. \* Written by two of the world's leading experts, this is the only dedicated non-Newtonian flow reference in print. \* Since first publication significant advances have been made in almost all areas covered in this book, which are incorporated in the new edition, including developments in CFD and computational techniques, velocity profiles in pipes, liquid/solid flows and applications to food processing, and new heat/mass transfer methods and models. \* Covers both basic rheology and the fluid mechanics of NN fluids ? a truly self-contained reference for anyone studying or working in the processing and handling of fluids

Precision Manufacturing Oct 29 2022 Precision Manufacturing provides an introduction to precision engineering for manufacturing. With an emphasis on design and performance of precision machinery for manufacturing – machine tool elements and structure, sources of error, precision machining processes and process models sensors for process monitoring and control, metrology, actuators, and machine design. This book will be of interest to design engineers, quality engineers and manufacturing engineers, academics and those who may or may not have previous experience with precision manufacturing, but want to learn more.

Helen of the Old House May 31 2020 This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blank

pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

**Continuum Mechanics and Plasticity** Mar 02 2023 Tremendous advances in computer technologies and methods have precipitated a great demand for refinements in the constitutive models of plasticity. Such refinements include the development of a model that would account for material anisotropy and produces results that compare well with experimental data. Key to developing such models-and to meeting many other challenges in the field- is a firm grasp of the principles of continuum mechanics and how they apply to the formulation of plasticity theory. Also critical is an understanding of the experimental aspects of plasticity and material anisotropy. Integrating the traditionally separate subjects of continuum mechanics and plasticity, this book builds understanding in all of those areas. Part I provides systematic, comprehensive coverage of continuum mechanics, from a review of Cartesian tensors to the relevant conservation laws and constitutive equation. Part II offers an exhaustive presentation of the continuum theory of plasticity. This includes a unique treatment of the experimental aspects of plasticity, covers anisotropic plasticity, and incorporates recent research results related to the endochronic theory of plasticity obtained by the author and his colleagues. By bringing all of these together in one book, *Continuum Mechanics and Plasticity* facilitates the learning of solid mechanics. Its readers will be well prepared for pursuing either research related to the mechanical behavior of engineering materials or developmental work in engineering analysis and design.

**Model Order Reduction: Theory, Research Aspects and Applications** Dec 2022 The idea for this book originated during the workshop "Model order reduction, coupled problems and optimization" held at the Lorentz Center in Leiden from September 19-23, 2005. During one of the discussion sessions, it became clear that a book describing the state of the art in model order reduction, starting from the very basics and containing an overview of all relevant techniques, would be of great use for students, young researchers starting in the field, and experienced researchers. The observation that most of the theory on model order reduction is scattered over many good papers, making it difficult to find a good starting point, was supported by most of the participants. Moreover, most of the speakers at the workshop were willing to contribute to the book that is now in front of you. The goal of this book, as defined during the discussion sessions at the workshop, is three-fold: first, it should describe the basics of model order reduction. Second, both general and more specialized model order reduction techniques for linear and nonlinear systems should be covered, including the use of several related numerical techniques. Third, the use of model order reduction techniques in practical applications and current research aspects should be discussed. We have organized the book according to these goals. In Part I, the rationale behind model order reduction is explained, and an overview of the most common methods is described.

**Introduction to Control Engineering** Oct 17 2021 The Text Is Written From The Engineer'S Point Of View To Explain The Basic Concepts Involved In Feedback Control Theory. The Material In The Text Has Been Organized For Gradual And Sequential Development Of Control Theory Starting With A Statement Of The Task Of A Control Engineer At The Very Outset. The Book Is Tended For An Introductory Undergraduate Course In Control Systems For Engineering Students. This Text Presents A Comprehensive Analysis And Design Of Continuous-Time Control Systems And Includes More Than Introductory Material For Discrete Systems With Adequate Guidelines To Extend The Results Derived In Connection With Continuous-Time Systems. The Prerequisite For The Reader Is Some Elementary Knowledge Of Differential Equations, Vector-Matrix Analysis And Mechanics. Transfer Function And State Variable Models Of Typical Components And Subsystems Have Been Derived In The Appendix At The End Of The Book. Most Of The Materials Including Solved And Unsolved Problems Presented In The Book Have Been Class-Tested In Senior Undergraduates And First Year Graduate Ee Courses In The Field Of Control Systems At The Electronics And Telecommunication Engineering Department, Jadavpur University. Matlab Is The Most Widely Used Cad Software Package In Universities Throughout The World. Some Representative Matlab Scripts Used For Solving Problems Are Included At The End Of Each Chapter. The Detailed Design Steps Of Fuzzy Logic Based Controller Using Simulink And Matlab Has Been Provided In The Book To Give The Student A Head Start In This Emerging Discipline. A Chapter Has Been Included To Deal With Nonlinear Components And Their Analysis Using Matlab And Simulink Through User Defined S-Functions. Finally, A Chapter Has Been Included To Deal With The Implementation Of Digital Controllers On Finite Bit Computer, To Bring Out The Problems Associated With Digital Controllers. In View Of The Extensive Use Of Matlab For Rapid Verification Of Controller Designs, Some Notes For Using Matlab Script M-Files And Function M-Files Are Included At The End Of The Book.

Grainger May 12 2021

**RoboCup 2009: Robot Soccer World Cup VIII** Nov 29 2020 This book includes the thoroughly refereed post-conference proceedings of the 13th RoboCup International Symposium, held in Graz, Austria, in June/July, 2009. They cover scientific contributions to a variety of research areas related to all RoboCup divisions.

Advanced Mechanics of Materials Sep 27 2022

Standard Handbook for Electrical Engineers Feb 01 2023

Robust Control Design 2000 (ROCOND 2000) 27 2019 This Proceedings contains the papers presented at the IFAC Symposium on Robust Control Design held in Prague on 21 - 23 June 2000. The technical program included sessions on robust control and related topics in identification and signal processing. The methods presented in the sessions included linear matrix inequalities, polynomial techniques, sliding modes, optimal control, fuzzy and adaptive control. Attention was also paid to linear as well as nonlinear systems. The highlights of the technical program were two plenary lectures by J. Geromel (Universidade Estadual de Campinas, Brazil) and H. Kwakernaak (University of Twente, The Netherlands).

Introduction to Robotics Jan 26 2020 Niku offers comprehensive, yet concise coverage of robotics that will appeal to engineers. Robotic applications are drawn from a wide variety of fields. Emphasis is placed on design along with analysis and modeling. Kinematics and dynamics are covered extensively in an accessible style. Vision systems are discussed in detail, which is a cutting-edge area in robotics. Engineers will also find a running design project that reinforces the concepts by having them apply what they've learned.

Foundation Design Nov 29 2022 In Foundation Design: Theory and Practice, Professor N. S. V. Kameswara Rao covers the key aspects of the subject, including principles of testing, interpretation, analysis, soil-structure interaction modeling, construction guidelines, and applications to rational design. Rao presents a wide array of numerical methods used in analyses so that readers can employ and adapt them on their own. Throughout the book the emphasis is on practical application, training readers in actual design procedures using the latest codes and standards in use throughout the world. Presents updated design procedures in light of revised codes and standards, covering: American Concrete Institute (ACI) codes Eurocode 7 Other British Standard-based codes including Indian codes Provides background materials for easy understanding of the topics, such as: Code provisions for reinforced concrete Pile design and construction Machine foundations and construction practices Tests for obtaining the design parameters Features subjects not covered in other foundation design texts: Soil-structure interaction approaches using analytical, numerical, and finite element methods Analysis and design of circular and annular foundations Analysis and design of piles and groups subjected to general loads and movements Contains worked out examples to illustrate the analysis and design Provides several problems for practice at the end of each chapter Lecture material for instructors available on the book's companion website Foundation Design is designed for graduate students in engineering and geotechnical engineering. The book is also ideal for advanced undergraduate students, contractors, builders, developers, heavy machine manufacturers, and power plant engineers. Students in mechanical engineering will find the chapter on machine foundations helpful for structural engineering applications. Companion website and instructor resources: [www.wiley.com/go/rao](http://www.wiley.com/go/rao)

Control Engineering Sep 03 2020 This book offers fundamental information on the analysis and synthesis of continuous and sampled data control systems. It includes all the required preliminary materials (from mathematical signals and systems) that are needed in order to understand control theory, so readers do not have to turn to other textbooks. Sampled data systems have recently gained increasing importance, as they provide the basis for the analysis and design of computer-controlled systems. Though the book mainly focuses on linear systems, input/output approaches and state space descriptions are also provided. Control structures such as feedback, feed forward, model control, state feedback control, and the Youla parameterization approach are discussed, while a closing section outlines advanced areas of control theory. Though the book also contains selected examples, a related exercise provides Matlab/Simulink exercises for all topics discussed in the textbook, helping readers to understand the theory and apply it in order to solve control problems. Thanks to this combination, readers will gain a basic grasp of systems and control, and be able to analyze and design continuous and discrete control systems.

Renewable Energy Focus e-Mega Handbook Aug 03 2020 A one-stop Desk Reference, for engineers involved in renewable energies; this is a book that will not gather dust on the shelf. It brings together the essential professional reference content from leading international contributors in the field. Material ranges from basic to advanced topics. A fully searchable Mega Reference Ebook, providing all the essential material needed by Energy and Environmental Engineers on a day-to-day basis. \* Fundamentals, key techniques, engineering best practice and rules-of-thumb brought together in one quick-reference. \* Over 2,500 pages of reference material, including over 1,500 pages not included in the print edition

Dynamic Modeling and Control of Engineering Systems Nov 17 2021 This textbook is ideal for a course in engineering systems dynamics and controls. The work is a comprehensive treatment of the analysis of lumped parameter physical systems. Starting with a discussion of mathematical models in general, and ordinary differential equations, the book covers input/output and state space models, computer simulation and modeling methods and techniques in mechanical, electrical, thermal and fluid domains. Frequency domain methods, transfer functions and frequency

response are covered in detail. The book concludes with a treatment of stability, feedback control (PID, lead-lag, locus) and an introduction to discrete time systems. This new edition features many new and expanded sections such topics as: solving stiff systems, operational amplifiers, electrohydraulic servovalves, using Matlab with transfer functions, using Matlab with frequency response, Matlab tutorial and an expanded Simulink tutorial. The work has 40% more end-of-chapter exercises and 30% more examples.

Fine Woodworking Jul 02 2020

DIGITAL CONTROL (With CD ) Jul 26 2022 Market\_Desc: " Engineering and postgraduate students in control engineering and electronic engineering." Practicing control systems engineers and researchers in this field." Engineers needing to learn digital control Special Features: " Developed from three existing lecture courses on digital control, systems identification and intermediate process control" Includes numerous examples, problems, solutions and Matlab code." Highlights the advantages of the polynomial approach." Assumes little or no prior knowledge of analogue control." Offers a very thorough treatment of the z-transform and frequency-domain analysis." Includes a thorough treatment of identification." Attempts the tuning of PID controllers using model-based control techniques. Concludes each chapter with a 2018 problems' section. The distinguishing feature of the Indian edition of this book is the accompanying CD which contains:- A ten minute video introduction to the book, using slides- Set of chapter presentation slides for teachers with animation- Set of slides for students, with four slides on one page- Matlab code in zip format and also as individual files, arranged in a directory structure- Scilab code in the same format as the Matlab code- Scilab software, using which one can install Scilab- Spoken tutorial on Scilab that explains how to use Scilab About The Book: This book is about the design of digital controllers. An attempt has been made to present digital control from scratch. The book is organized into five parts. The first deals with modeling, the second concludes with the topic of signal processing, the third devoted to identification of plants from measurements, fourth section looks at the transfer function approach to control design and the last section is devoted to state space technique in control design. The topics of observers, Kalman filter and combined controller and observer have also been included. Introduction to Fuzzy Logic using MATLAB 20 2022 This book provides a broad-ranging, but detailed overview of the basics of Fuzzy Logic. The fundamentals of Fuzzy Logic are discussed in detail, and illustrated with various solved examples. The book also deals with applications of Fuzzy Logic, to help readers more fully understand the concepts involved. Solutions to the problems are programmed using MATLAB 6.0, with simulated results. The MATLAB Fuzzy Logic toolbox is provided for easy reference.

Aircraft Structures for Engineering Students Oct 31 2022

A Monte Carlo Primer Mar 10 2021 The mathematical technique of Monte Carlo, as applied to the transport of slow atomic particles, has been described in numerous reports and books since its formal development in the 1940s. In these instructional efforts have been directed either at the mathematical basis of the technique or at its practical application as embodied in the several large, formal computer codes available for performing Monte Carlo transport calculations. This book attempts to fill what appears to be a gap in this Monte Carlo literature between the mathematics and the software. Thus, while the mathematical basis for Monte Carlo transport is covered in some detail, emphasis is placed on the application of the technique to the solution of practical radiation transport problems. This is done by using the PC as the basic teaching tool. This book assumes the reader has a knowledge of integral calculus, neutron transport theory, and Fortran programming. It also assumes the reader has available a PC with a Fortran compiler. Any PC of reasonable size should be adequate to reproduce the examples or solve the exercises contained herein. The authors believe it is important for the reader to execute these examples and exercises, and in doing so to become accomplished at preparing appropriate software for solving radiation transport problems using Monte Carlo. The step from the software described in this book to the use of production Monte Carlo codes should be straightforward.

Circular Cylinders and Pressure Vessels Oct 05 2020 This book provides comprehensive coverage of stress and strain analysis of circular cylinders and pressure vessels, one of the classic topics of machine design theory and methods. Whereas other books offer only a partial treatment of the subject and frequently consider stress analysis solely in terms of the elastic field, Circular Cylinders and Pressure Vessels broadens the design horizons, analyzing theoretically what happens at pressures that stress the material beyond its yield point and at thermal loads that give rise to creep. Consideration of both traditional and advanced topics ensures that the book will be of value for a broad spectrum of readers, including students in postgraduate, and doctoral programs and established researchers and design engineers. The relations provided will serve as a sound basis for the design of products that are safe, technologically sophisticated, and compliant with standards and codes and for the development of innovative applications.

Introduction to Genetic Algorithms Nov 05 2020 This book offers a basic introduction to genetic algorithms. It provides a detailed explanation of genetic algorithm concepts and examines numerous genetic algorithm optimization problems. In addition, the book presents implementation of optimization problems using C and C++ as well as

simulated solutions for genetic algorithm problems using MATLAB 7.0. It also includes application case studies of genetic algorithms in emerging fields.

Catalog Apr 03 2023

Springer Handbook of Mechanical Engineering Feb 18 2022 This resource covers all areas of interest for the practicing engineer as well as for the student at various levels and educational institutions. It features the work of authors from all over the world who have contributed their expertise and support the globally working engineer in finding a solution for today's mechanical engineering problems. Each subject is discussed in detail and supported by numerous figures and tables.

Jet Cutting Technology Apr 22 2022 This volume contains papers presented at the 11th International Conference on Jet Cutting Technology, held at St. Andrews, Scotland, on 8-10 September 1992. Jetting techniques have been successfully applied for many years in the field of cleaning and descaling. Today, however, jet cutting is used in operations as diverse as removing cancerous growths from the human body, decommissioning sunsea installations, and disabling explosive munitions. The diversity is reflected in the papers presented at the conference. The papers were divided into several main sections: jetting basics -- materials; jetting basics -- fluid mechanics; mining and quarrying; civil engineering; new developments; petrochem; cleaning and surface treatment; and manufacturing. The high quality of papers presented at the conference has further reinforced its position as the premier event in the field. This volume will be of interest to researchers, developers and manufacturers of systems, equipment users and contractors.

Analysis and Synthesis of Reset Control Systems Feb 27 2020 A reset controller is a linear controller whose output is reset to zero whenever its input and output satisfy an appropriate algebraic relationship. It has widespread industrial applications and is used in many modern day control systems. This monograph provides a comprehensive survey of reset control systems in three parts. Part I provides an historical literature review and presents some fundamental results. Part II deals with nonplanar reset systems and covers several reset rules that may be used to augment high-order controllers for systems of any order. It also provides several simulation studies showing that reset control strategies may allow to attain better performance with respect to the optimal ones obtained by classical continuous-time controllers. Part III focuses on planar systems and reports on a nontrivial generalization of the basic mechanisms emerging in Clegg integrators and First Order Reset Elements (FORE). Relevant case studies emerging in the automotive field are included. This monograph gives an in-depth assessment of the state-of-the-art and provides the reader with a starting point for further research into the increasingly important topic of Reset Control Systems.

Physics of Continuous Matter, Second Edition Aug 27 2022 Physics of Continuous Matter: Exotic and Everyday Phenomena in the Macroscopic World, Second Edition provides an introduction to the basic ideas of continuum mechanics and their application to a wealth of macroscopic phenomena. The text focuses on the many approximate methods that offer insight into the rich physics hidden in fundamental continuum mechanics equations. Like its acclaimed predecessor, this second edition introduces mathematical tools on a "need-to-know" basis. New to this Second Edition This edition includes three new chapters on elasticity of slender rods, energy, and entropy. It also offers more margin drawings and photographs and improved images of simulations. Along with reorganizing much of the material, the author has revised many of the physics arguments and mathematical presentations to improve clarity and consistency. The collection of problems at the end of each chapter has been expanded as well. These problems further develop the physical and mathematical concepts presented. With worked examples throughout the book clearly illustrates both qualitative and quantitative physics reasoning. It emphasizes the importance in understanding the physical principles behind equations and the conditions underlying approximations. A companion website provides a host of ancillary materials, including software programs, color figures, and additional problems.

Shallow Foundations Aug 15 2021 Shallow Foundations: Discussions and Problem Solving is written for civil engineers and all civil engineering students taking courses in soil mechanics and geotechnical engineering. It covers the analysis, design and application of shallow foundations, with a primary focus on the interface between the structural elements and underlying soil. Topics such as site investigation, foundation contact pressure and settlement, vertical stresses in soils due to foundation loads, settlements, and bearing capacity are all fully covered, and a chapter is devoted to the structural design of different types of shallow foundations. It provides essential data for the design of shallow foundations under normal circumstances, considering both the American (ACI) and the European (EN) Standard Building Code Requirements, with each chapter being a concise discussion of critical and practical aspects. Applications are highlighted through solving a relatively large number of realistic problems. A total of 180 problems, all with full solutions, consolidate understanding of the fundamental principles and illustrate the design and application of shallow foundations.

Mechanical Design of Electric Motors Feb 06 2021 Rapid increases in energy consumption and emphasis on environmental protection have posed challenges for the motor industry, as has the design and manufacture of high efficiency, reliable, cost-effective, energy-saving, quiet, precisely controlled, and long-lasting electric motors. Suitable

motor designers, engineers, and manufacturers, as well

Principles of Metal Manufacturing Processes May 24 2022 Metals are still the most widely used structural materials in the manufacture of products and structures. Their properties are extremely dependent on the processes they undergo to form the final product. Successful manufacturing therefore depends on a detailed knowledge of the processing of the materials involved. This highly illustrated book provides that knowledge. Metal processing is a technical subject requiring a quantitative approach. This book illustrates this approach with real case studies de

Embedded Digital Control with Microcontrollers Apr 10 2021 Explore a concise and practical introduction to implementation methods and the theory of digital control systems on microcontrollers Embedded Digital Control Implementation on ARM Cortex-M Microcontrollers delivers expert instruction in digital control system implementation techniques on the widely used ARM Cortex-M microcontroller. The accomplished authors present included information in three phases. First, they describe how to implement prototype digital control systems via Python programming language in order to help the reader better understand theoretical digital control concepts. Second, the book offers readers direction on using the C programming language to implement digital control systems on actual microcontrollers. This will allow readers to solve real-life problems involving digital control, robotics, and mechatronics. Finally, readers will learn how to merge the theoretical and practical issues discussed in the book implementing digital control systems in real-life applications. Throughout the book, the application of digital control systems using the Python programming language ensures the reader can apply the theory contained within. Readers will also benefit from the inclusion of: A thorough introduction to the hardware used in the book, including STM32 Nucleo Development Boards and motor drive expansion boards An exploration of the software used in the book, including MicroPython, Keil uVision, and Mbed Practical discussions of digital control basics, including discrete-time signals, discrete-time systems, linear and time-invariant systems, and constant coefficient difference equations An examination of how to represent a continuous-time system in digital form, including analog-to-digital conversion and digital-to-analog conversion Perfect for undergraduate students in electrical engineering, Embedded Digital Control Implementation on ARM Cortex-M Microcontrollers will also earn a place in the libraries of professional engineers and hobbyists working on digital control and robotics systems seeking a one-stop reference for digital control systems on microcontrollers.

Chemical Engineering, Volume 3 Dec 07 2020 The publication of the third edition of 'Chemical Engineering Volume 3' marks the completion of the re-orientation of the basic material contained in the first three volumes of the series. Volume 3 is devoted to reaction engineering (both chemical and biochemical), together with measurement and process control. This text is designed for students, graduate and postgraduate, of chemical engineering.

Convergent Cognitive Information Technologies Apr 30 2020 This book constitutes the refereed proceedings of the Third International Conference on Convergent Cognitive Information Technologies, Convergent 2018, held in Moscow, Russia, in December 2018. The 26 revised full papers and 9 short papers were carefully reviewed and selected from 147 submissions. The papers of this volume are organized in topical sections on theoretical questions in computer science, computational mathematics, computer science and cognitive information technologies; cognitive information technologies in control systems; big data and applications; the Internet of Things (IoT): standards, communication and information technologies, network applications; smart cities: standards, cognitive-information technologies and their applications.- cognitive information technologies in the digital economics.- digital transformation of transport.

Fox and McDonald's Introduction to Fluid Mechanics May 04 2023 Through ten editions, Fox and McDonald's Introduction to Fluid Mechanics has helped students understand the physical concepts, basic principles, and analytical methods of fluid mechanics. This market-leading textbook provides a balanced, systematic approach to mastering critical concepts with the proven Fox-McDonald solution methodology. In-depth yet accessible chapters present governing equations, clearly state assumptions, and relate mathematical results to corresponding physical behavior. Emphasis is placed on the use of control volumes to support a practical, theoretically-inclusive problem-solving approach to the subject. Each comprehensive chapter includes numerous, easy-to-follow examples that illustrate the solution technique and explain challenging points. A broad range of carefully selected topics describe how to apply governing equations to various problems, and explain physical concepts to enable students to model real-world flow situations. Topics include flow measurement, dimensional analysis and similitude, flow in pipes, ducts, and open channels, fluid machinery, and more. To enhance student learning, the book incorporates numerous pedagogical features including chapter summaries and learning objectives, end-of-chapter problems, useful equations, and design and open-ended problems that encourage students to apply fluid mechanics principles to the design of devices and systems.

Signals and Systems (Edition 3rd) Oct 08 2021 This book is intended for use in teaching undergraduate courses on

continuous-time and/or discrete-time signals and systems in engineering (and related) disciplines. It provides a detailed introduction to continuous-time and discrete-time signals and systems, with a focus on both theory and applications. The mathematics underlying signals and systems is presented, including topics such as: signal properties, elementary signals, system properties, continuous-time and discrete-time linear time-invariant systems, convolution, continuous-time and discrete-time Fourier series, the continuous-time and discrete-time Fourier transforms, frequency spectra, and the bilateral and unilateral Laplace and z transforms. Applications of the theory are also explored, including: filtering, equalization, amplitude modulation, sampling, feedback control systems, circuit analysis, Laplace-domain techniques for solving differential equations, and z-domain techniques for solving differential equations. Other supplemental material is also included, such as: a detailed introduction to MATLAB, a review of complex analysis, an introduction to partial fraction expansions, an exploration of time-domain techniques for solving differential equations, and information on online video-lecture content for material covered in the book. Throughout the book, many worked-through examples are provided. Problem sets are also provided for each major topic covered.

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