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Digital Control Systems - Benjamin C. Kuo 2007

Bibliografia mexicana - 1978

Sistemas dinâmicos e mecatrônicos - Volume 1 - José Manoel Balthazar 2021-05-24
Recentemente, engenheiros e cientistas têm se dedicado à simulação computacional e à análise experimental, desenvolvendo técnicas preditivas e sistemas de controle a partir da investigação de modelos físicos reais em várias frentes. Assim, faz-se necessário capacitá-los na identificação de necessidades e possibilidades de redução das vibrações estruturais, por meio de análise dinâmica, e no projeto e na otimização de sistemas de controle. Este texto visa oferecer aos leitores engenheiros, pesquisadores e estudantes um material didático e de pesquisa em língua portuguesa, básico e atual, versando sobre dinâmica e controle lineares e não lineares aplicados à engenharia e à ciência moderna, contendo doze capítulos desenvolvendo tópicos de: noções básicas de modelagem matemática e de métodos numéricos (diagramas de fase, diagrama de bifurcações, cálculo dos expoentes de Lyapunov, confecção de mapas e secções de Poincaré, teste 0-1, gráficos de recorrência etc.); busca de soluções analíticas aproximadas por meio do método das múltiplas escalas; identificação não linear, fundamentos de controle, tópicos de controles linear, não linear e robusto e noções básicas do uso de caos polinomial, como análise de sensibilidade de parâmetros; tópicos de controle de processos e controladores baseados em lógica fuzzy, além de noções de otimização usando-se PSO; noções básicas de controladores não lineares (zona morta, saturação etc.); aplicações de controle em sistemas eletromecânicos e mecatrônicos.
Anuario bibliográfico colombiano "Rubén Pérez Ortiz." - 1992

Ecological Implications of Minilivestock - M G Paoletti 2005-01-07
This book provides stimulating and timely suggestions about expanding the world food supply to include a variety of minilivestock. It suggests a wide variety of small animals as nutritious food. These animals include arthropods (insects, earthworms, snails, frogs), and various rodents. The major advantage of minilivestock is that they do not have t
Schaum's Outline of Theory and Problems of Feedback and Control Systems - Joseph J. DiStefano 1967
Control systems terminology. Linear systems and differential equations. The laplace transform. Stability. Transfer functions. Block diagram algebra and transfer functions of systems. Signal flow graphs. System classification, error constants, and sensitivity. The analysis and design of feedback control systems: objectives and methods. Nyquist analysis. Nyquist design. Root-locus analysis. Root-locus design. Bode analysis. Bode design. Nichols chart analysis. Nichols chart design. Advanced topics.
Mobile Information Systems - Barbara Pernici 2006-09-02
This book presents a framework for mobile information systems, focusing on quality of service and adaptability at all architectural levels. These levels range from adaptive applications to e-services, middleware, and infrastructural elements, as developed in the "Multichannel Adaptive Information Systems" (MAIS) project. The design models, methods, and tools developed in the project allow the realization of adaptive mobile information systems in a variety of different architectures.
Boletín de la biblioteca universitaria - Universidad Autónoma Tomás Frías. Biblioteca 1975

Fichero bibliográfico hispanoamericano - 1971

Bibliografía mexicana - 1978

Intelligent Data Engineering and Automated Learning – IDEAL 2020 - Cesar Analide 2020-10-29
This two-volume set of LNCS 12489 and 12490 constitutes the thoroughly refereed conference proceedings of the 21th International Conference on Intelligent Data Engineering and Automated Learning, IDEAL 2020, held in Guimaraes, Portugal, in November 2020.* The 93 papers presented were carefully reviewed and selected from 134 submissions. These papers provided a timely sample of the latest advances in data engineering and machine learning, from methodologies, frameworks, and algorithms to applications. The core themes of IDEAL 2020 include big data challenges, machine learning, data mining, information retrieval and management, bio-/neuro-informatics, bio-inspiredmodels, agents and hybrid intelligent systems, real-world applications of intelligent techniques and AI. * The conference was held virtually due to the COVID-19 pandemic.
Boletín bibliográfico - Centro Catalográfico Centroamericano - Centro Catalográfico Centroamericano 1979

Digital Signal Processing Using MATLAB - Vinay K. Ingle 2007
This supplement to any standard DSP text is one of the first books to successfully integrate the use of MATLAB® in the study of DSP concepts. In this book, MATLAB® is used as a computing tool to explore traditional DSP topics, and solve problems to gain insight. This greatly expands the range and complexity of problems that students can effectively study in the course. Since DSP applications are primarily algorithms implemented on a DSP processor or software, a fair amount of programming is required. Using interactive software such as MATLAB® makes it possible to place more emphasis on learning new and difficult concepts than on programming algorithms. Interesting practical examples are discussed and useful problems are explored. This updated second edition includes new homework problems and revises the scripts in the book, available functions, and m-files to MATLAB® V7.
Principles of Surgery - Frank C. Spencer 1999
A substantial and transforming revision of the classic text. This edition features nearly 50% new material written by the next generation of leaders in the field of surgery. Highlight include the latest advances and techniques in transplantation, expanded coverage of surgical oncology, a completely new chapter on trauma written by the leading figure on the subject, and a state-of-the-art review of recent findings concerning systemic and metabolic response to injury. Furthermore, in keeping with the implications of managed care, the latest minimally invasive techniques for the surgical treatment and management of disease have been integrated throughout the text. Lastly, the scientific principles underlying pathophysiology and surgical intervention accompany discussion of surgical diagnosis and management.
Control Systems - Francisco Luis Pagola y de las Heras 2016-10-05

LEV - 1998

Bibliografía colombiana - 1992

Computational Probability and Mathematical Modeling - José Roberto Cantú-González 2019-12-24
In the present time, two of the most important approaches to tackle complex systems are probability and stochastic processes theory. Still from an analytic perspective, modeling and solving a problem using a stochastic approach is not a trivial issue, hence, a combination of the logic of probabilistic reasoning with computational science is needed to obtain qualitatively good solutions in a reasonable time. This eBook presents an interesting view of applications associated to fields of probability, statistics, and mathematic modeling, all of them supported by a computational context though the approach of stochasticity and simulation used in most of them. This collection contains three chapters,

which bring applications in fields of biology, finance and physics, each chapter contains work(s) with specific applications. An editorial is also contained with a summarized version of each work, and each of them are widely explained in a specific section, which include a state of art to support the nature of the individual research, a methodology to solve the defined problem and the results and conclusions. We hope the present eBook can represent a potential source of knowledge for the academic community of implicated disciplines, and an inspirational starting point of starting for scientists in the amazing world of applied mathematics and the search to solve complex problems

Optimal Control and Estimation - Robert F. Stengel 2012-10-16
Graduate-level text provides introduction to optimal control theory for stochastic systems, emphasizing application of basic concepts to real problems.

Duplex Ultrasound of Superficial Leg Veins - Erika Mendoza 2014-06-30
This book describes in detail the use of duplex ultrasound for exploration of the superficial veins and their pathology. It has a practical orientation, presenting numerous clinical situations and explaining how to identify the different sources of reflux, especially in the groin. The investigation of pathology of the saphenous trunks, perforators and side branches is described in detail. As duplex ultrasound plays an important role during various venous surgical procedures, its application pre, intra and postoperatively is presented. Furthermore, the sonographic appearances of thrombotic pathology of superficial and deep veins, edema and other conditions that may be observed while exploring the veins are fully described. The book is based on the authors' extensive clinical experience and is intended to assist fellow practitioners who want to learn more about the technique it will be equally valuable for physicians and technicians. A wealth of informative images is included with the aim of covering every potential situation.

Boletín de medio ambiente y urbanización - 1984

Modern Control Systems - Richard C. Dorf 2021

Fundamentals of Aerospace Engineering (2nd Edition) - Manuel Soler 2017-09-03
The Second Edition of this book includes a revision and an extension of its former version. The book is divided into three parts, namely: Introduction, The Aircraft, and Air Transportation, Airports, and Air Navigation. It also incoporates an appendix with somehow advanced mathematics and computer based exercises. The first part is divided in two chapters in which the student must achieve to understand the basic elements of atmospheric flight (ISA and planetary references) and the technology that apply to the aerospace sector, in particular with a specific comprehension of the elements of an aircraft. The second part focuses on the aircraft and it is divided in five chapters that introduce the student to aircraft aerodynamics (fluid mechanics, airfoils, wings, high-lift devices), aircraft materials and structures, aircraft propulsion, aircraft instruments and systems, and atmospheric flight mechanics (performances and stability and control). The third part is devoted to understand the global air transport system (covering both regulatory and economical frameworks), the airports, and the global air navigation system (its history, current status, and future development). The theoretical contents are illustrated with figures and complemented with some problems/exercises. The course is complemented by a practical approach. Students should be able to apply theoretical knowledge to solve practical cases using academic (but also industrial) software, such as Python and XFLR5. The course also includes a series of assignments to be completed individually or in groups. These tasks comprise an oral presentation, technical reports, scientific papers, problems, etc. The course is supplemented by scientific and industrial seminars, recommended readings, and a visit to an institution or industry related to the study and of interest to the students. All this documentation is not explicitly in the book but can be accessed online at the book's website www.aerospaceengineering.es. The slides of the course are also available at the book's website: http: //www.aerospaceengineering.es Fundamentals of Aerospace Engineering is licensed under a Creative Commons Attribution-Share Alike (CC BY-SA) 3.0 License, and it is offered in open access both in "pdf" format. The document can be accessed and downloaded at the book's website. This licensing is aligned with a philosophy of sharing and spreading knowledge. Writing and revising over and over this book has been an exhausting, very time consuming activity. To acknowledge author's effort, a donation platform has been activated at the book's website.

Las estadísticas hospitalarias y la historia clínica - Carlos Ferrero 1973

Sistemas y organizaciones - B. Oscar Johansen 1970

Boletín bibliografico - Biblioteca del Congreso Nacional (Chile) 1982

Vibration Control Engineering - Ernesto Novillo 2021-11-26
This book applies vibration engineering to turbomachinery, covering installation, maintenance and operation. With a practical approach based on clear theoretical principles and formulas, the book is an essential how-to guide for all professional engineers dealing with vibration issues within turbomachinery. Vibration problems in turbines, large fans, blowers, and other rotating machines are common issues within turbomachinery. Applicable to industries such as oil and gas mining, cement, pharmaceutical and naval engineering, the ability to predict vibration based on frequency spectrum patterns is essential for many professional engineers. In this book, the theory behind vibration is clearly detailed, providing an easy to follow methodology through which to calculate vibration propagation. Describing lateral and torsional vibration and how this impacts turbine shaft integrity, the book uses mechanics of materials theory and formulas alongside the matrix method to provide clear solutions to vibration problems. Additionally, it describes how to carry out a risk assessment of vibration fatigue. Other topics covered include vibration control techniques, the design of passive and active absorbers and rigid, non-rigid and Z foundations. The book will be of interest to professionals working with turbomachinery, naval engineering corps and those working on ISO standards 10816 and 13374. It will also aid mechanical engineering students working on vibration and machine design.

Control System Design - Bernard Friedland 2012-03-08
Introduction to state-space methods covers feedback control; state-space representation of dynamic systems and dynamics of linear systems; frequency-domain analysis; controllability and observability; shaping the dynamic response; more. 1986 edition.

Ecosistemas pastorales de la zona mediterránea árida de Chile - David Contreras T. 1986

Boolean Reasoning - Frank Markham Brown 2012-02-10
Concise text begins with overview of elementary mathematical concepts and outlines theory of Boolean algebras; defines operators for elimination, division, and expansion; covers syllogistic reasoning, solution of Boolean equations, functional deduction. 1990 edition.

Dynamic Systems Biology Modeling and Simulation - Joseph DiStefano III 2015-01-10
Dynamic Systems Biology Modeling and Simuation consolidates and unifies classical and contemporary multiscale methodologies for mathematical modeling and computer simulation of dynamic biological systems – from molecular/cellular, organ-system, on up to population levels. The book pedagogy is developed as a well-annotated, systematic tutorial – with clearly spelled-out and unified nomenclature – derived from the author's own modeling efforts, publications and teaching over half a century. Ambiguities in some concepts and tools are clarified and others are rendered more accessible and practical. The latter include novel qualitative theory and methodologies for recognizing dynamical signatures in data using structural (multicompartmental and network) models and graph theory; and analyzing structural and measurement (data) models for quantification feasibility. The level is basic-to-intermediate, with much emphasis on biomodeling from real biodata, for use in real applications. Introductory coverage of core mathematical concepts such as linear and nonlinear differential and difference equations, Laplace transforms, linear algebra, probability, statistics and stochastics topics; PLUS ..... The pertinent biology, biochemistry, biophysics or pharmacology for modeling are provided, to support understanding the amalgam of "math modeling" with life sciences. Strong emphasis on quantifying as well as building and analyzing biomodels: includes methodology and computational tools for parameter identifiability and sensitivity analysis; parameter estimation from real data; model distinguishability and simplification; and practical bioexperiment design and optimization. Companion website provides solutions and program code for examples and exercises using Matlab, Simulink, VisSim, SimBiology, SAAMII, AMIGO, Copasi and SBML-coded models. A full set of PowerPoint slides are available from the author for teaching from his textbook. He uses them to teach a 10 week quarter upper division course at UCLA, which meets twice a week, so there are 20 lectures. They can easily be augmented or stretched for a 15 week

semester course. Importantly, the slides are editable, so they can be readily adapted to a lecturer’s personal style and course content needs. The lectures are based on excerpts from 12 of the first 13 chapters of DSBMS. They are designed to highlight the key course material, as a study guide and structure for students following the full text content. The complete PowerPoint slide package (~25 MB) can be obtained by instructors (or prospective instructors) by emailing the author directly, at: joed@cs.ucla.edu

Libros en venta en Hispanoamérica y España - 1992

Tecnología industrial II. Materiales didácticos. Bachillerato - Ministerio de Educación

New trends for innovation in the Mediterranean animal production - R. Bouche 2012-03-26

The Mediterranean area shows a great diversity of livestock systems, depending on local resources and traditions, but also on the networking space where informational resources are available for producers. During the last decades, a lot of innovations have been conceived or introduced in the Mediterranean area, allowing livestock systems to remain competitive. The book looks at two main issues: firstly, it gives an updated review on the main innovations that significantly changed the activities of livestock production in the Mediterranean area in the recent past. Secondly, the focus lies on the extent to which these innovations improve the efficiency, ensure the socio-cultural basis or reduce the environmental impact of livestock systems. One major finding is a new vision of innovating systems based on the distinction between regulated innovation (when aims are fixed) and innovative design (when aims are questioned). Innovations reported in the book are dealing with a set of concerns. They concern the production techniques, the work organization, the equipment and infrastructures, the collective features for selection, reproduction, feeding or sanitary devices. They also concern the local organization such as product labelling, new dynamics around local breeds, collective rules for supply basin or approaches of new products for new markets. More recently, some innovations focus on environmental impacts of livestock production, due to an increasing consciousness of those kinds of problems. In the final part of the book, a round table copes with a crucial question: are traditions in Mediterranean livestock activities to be considered an obstacle or a source of innovation? This book provides a set of updated information and knowledge useful for researchers, students, extension services and policy-makers in the field of animal science.

Regulación automática - Luis Pagola y de las Heras 2010-11-02

Los sistemas automáticos de mando, control y regulación desempeñan un papel muy importante dentro del conjunto de los sistemas industriales. Muchos desarrollos ni siquiera son posibles sin reguladores eficientes, por todo ello, la Regulación Automática es una asignatura con técnicas básicas bien definidas, un campo enorme de aplicaciones y muchas relaciones con otras disciplinas.

System Dynamics and Control - Eronini Umez-Eronini 1999

This applied and comprehensive book combines topical coverage of both System Dynamics and Automatic Controls in one text, resulting in a pedagogically sound presentation of both subjects that can be used in this standard two-course sequence. It is thorough and complete, with, according to one reviewer, a "tremendous number of interesting practice problems covering a broad range of areas, giving the instructor significant choice and flexibility" in teaching the material. The book also has a wealth of worked-out, real-world examples, with every step clearly shown and explained. Cumulative examples that build through succeeding chapters demonstrate the stages of system modeling, from initial steps - which include the important but often omitted physical modeling process - through mathematical analysis to design realization. The result is a new and unified presentation of system dynamics and control, founded on a wide range of systems (mechanical, electrical, electromechanical - including MEMS, fluid, thermal, and chemical), with a common state-space approach.

Welding - Larry F. Jeffus 1988

This text has been revised to introduce the non-experienced welding student to the major weld, particularly gas metal arc welding processes and gas tungsten.

Libros de los Estados Unidos traducidos al idioma español - Mary C. Turner 1984

Decision Support Systems for Weed Management - Guillermo R. Chantre 2020-07-31

Weed management Decision Support Systems (DSS) are increasingly important computer-based tools for modern agriculture. Nowadays, extensive agriculture has become highly dependent on external inputs and both economic costs, as well the negative environmental impact of agricultural activities, demands knowledge-based technology for the optimization and protection of non-renewable resources. In this context, weed management strategies should aim to maximize economic profit by preserving and enhancing agricultural systems. Although previous contributions focusing on weed biology and weed management provide valuable insight on many aspects of weed species ecology and practical guides for weed control, no attempts have been made to highlight the forthcoming importance of DSS in weed management. This book is a first attempt to integrate `concepts and practice’ providing a novel guide to the state-of-art of DSS and the future prospects which hopefully would be of interest to higher-level students, academics and professionals in related areas.

The Publishers' Trade List Annual - 1980