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Advances in Power Systems and Energy Management
 Handbook of Surface Plasmon Resonance
 Electromagnetic Actuation and Sensing in Medical Robotics
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 Habits: plasticity, learning and freedom
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 Vibration of Hydraulic Machinery
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 Rethinking 'Classical Yoga' and Buddhism
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 How To Diagnose and Repair Automotive Electrical Systems
 Interactive Collaborative Robotics
 Optical Metrology
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 European Control Conference 1995
 Refrigeration for Cryogenic Sensors
 Automotive Engines

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HULL HADASSAH

Advances in Power Systems and Energy Management John Wiley & Sons
 Multivariable Feedback Control: Analysis and Design, Second Edition presents a rigorous, yet easily readable, introduction to the analysis and design of robust multivariable control systems. Focusing on practical feedback control and not on system theory in general, this book provides the reader with insights into the opportunities and limitations of feedback control. Taking into account the latest developments in the field, this fully revised and updated second edition: * features a new chapter devoted to the use of linear matrix inequalities (LMIs); * presents current results on fundamental performance limitations introduced by RHP-poles and RHP-zeros; * introduces updated material on the selection of controlled variables and self-optimizing control; * provides simple IMC tuning rules for PID control; * covers additional material including unstable plants, the feedback amplifier, the lower gain margin and a clear strategy for incorporating integral action into LQG control; * includes numerous worked examples, exercises and case studies, which

make frequent use of Matlab and the new Robust Control toolbox. Multivariable Feedback Control: Analysis and Design, Second Edition is an excellent resource for advanced undergraduate and graduate courses studying multivariable control. It is also an invaluable tool for engineers who want to understand multivariable control, its limitations, and how it can be applied in practice. The analysis techniques and the material on control structure design should prove very useful in the new emerging area of systems biology. Reviews of the first edition: "Being rich in insights and practical tips on controller design, the book should also prove to be very beneficial to industrial control engineers, both as a reference book and as an educational tool." Applied Mechanics Reviews "In summary, this book can be strongly recommended not only as a basic text in multivariable control techniques for graduate and undergraduate students, but also as a valuable source of information for control engineers." International Journal of Adaptive Control and Signal Processing
Handbook of Surface Plasmon Resonance University Science Books
 Discussing distillation, this book gives readers guidelines for operation, troubleshooting and control. It offers a compendium of Do's and Don'ts, good practices, and guidelines for trouble-free

design; operation and troubleshooting for inlets and outlets; avoiding tray damage; installation; commissioning and startup techniques; and more.

Electromagnetic Actuation and Sensing in Medical Robotics
Springer Nature

This book comprises select proceedings of the international conference ETAEERE 2020, and focuses on contemporary issues in energy management and energy efficiency in the context of power systems. The contents cover modeling, simulation and optimization based studies on topics like medium voltage BTB system, cost optimization of a ring frame unit in textile industry, rectenna for RF energy harvesting, ecology and energy dimension in infrastructural designs, study of AGC in two area hydro thermal power system, energy-efficient and reliable depth-based routing protocol for underwater wireless sensor network, and power line communication. This book can be beneficial for students, researchers as well as industry professionals.

Cabbling Springer Nature

This book offers a timely report on an emerging topic in the field of wearable assistive technology: the design and development of robotic extra fingers. After a concise review of the state of the art and a description of earlier prototypes, it discusses the authors' efforts to address issues such as portability and wearability of the devices, including strategies to reduce fatigue and to integrate the motion of the extra fingers with that of the human hand. The book also explores optimized control algorithms and the design of wearable sensorimotor interfaces, and presents a set of tests carried out on healthy subjects and chronic stroke patients.

Merging concepts from robotics, biomechanics, human factors and control theory and offering an overview of supernumerary robotic fingers, including the challenges, this book will inspire researchers involved in the development of wearable robotic devices and interfaces based on the principles of wearability, safety, ergonomics and user comfort.

Essential Immunology Frontiers Media SA

This book constitutes the refereed proceedings of the 4th International Conference on Interactive Collaborative Robotics, ICR 2019, held in Istanbul, Turkey, in August 2019. The 32 papers presented in this volume were carefully reviewed and selected from 46 submissions. They deal with challenges of human-robot interaction; robot control and behavior in social robotics and collaborative robotics; and applied robotic and cyber-physical systems.

The Michigan Technic Royal Society of Chemistry

This proceedings volume explores the latest advances in transport and logistics, while also discussing the applications of modern information technologies, telecommunications, electronics, and prospective research methods and analyzing their impacts on society and the environment, which in turn determine the future development of these technologies. The book is intended for a broad readership, including transport and logistics business planners and technical experts, leveraging industry knowledge and facilitating technology adoption in promising business regions and transit corridors such as Ukraine, Kazakhstan, and others. The authors, who include policy planners and crafters as well as education and training professionals, address various types of intermodal transport such as rail, road, maritime, air, etc.

Habits: plasticity, learning and freedom Springer Nature

This book comprises selected peer-reviewed proceedings of the International Conference on Applications of Fluid Dynamics (ICAFD 2018) organized by the School of Advanced Sciences, Vellore Institute of Technology, India, in association with the University of Botswana and the Society for Industrial and Applied Mathematics (SIAM), USA. With an aim to identify the existing

challenges in the area of applied mathematics and mechanics, the book emphasizes the importance of establishing new methods and algorithms to address these challenges. The topics covered include diverse applications of fluid dynamics in aerospace dynamics and propulsion, atmospheric sciences, compressible flow, environmental fluid dynamics, control structures, viscoelasticity and mechanics of composites. Given the contents, the book is a useful resource for students, researchers as well as practitioners.

Official Gazette of the United States Patent and Trademark Office
John Wiley & Sons

Two books in one! Complete coverage of data cabling and fiber optics makes this the most comprehensive cabling book on the market. With the growing demand for fiber optics in large-scale communications networks, network professionals need complete, up-to-the-minute information. The fourth edition of this popular guide provides you with the latest on copper and fiber-optic networking. It is particularly useful for those studying for the Fiber Optics Installer or Fiber Optics Technician certifications. Part I covers the basics of cabling, while Part II is devoted to in-depth information on fiber optics, allowing you to stay up to speed on all aspects of the field. Demonstrates how to work with all of the various types of cables—from those used to network desktops to hubs and switches up to those used by major telecommunications carriers. Appeals to anyone who plans, builds, and maintains a network. Offers a solid foundation in fiber optics. As the industry transitions from copper cabling to fiber optics, *Cabbling: The Complete Guide to Copper and Fiber-Optic Networking, Fourth Edition* is a vital tool for network administrators and technicians.

Vibration of Hydraulic Machinery Springer Science & Business Media

This innovative volume provides a systematic treatment of the basic concepts and computational procedures for structural motion design and engineering for civil installations. The authors illustrate the application of motion control to a wide spectrum of buildings through many examples. Topics covered include optimal stiffness distributions for building-type structures, the role of damping in controlling motion, tuned mass dampers, base isolation systems, linear control, and nonlinear control. The book's primary objective is the satisfaction of motion-related design requirements such as restrictions on displacement and acceleration and seeks the optimal deployment of material stiffness and motion control devices to achieve these design targets as well as satisfy constraints on strength. The book is ideal for practicing engineers and graduate students.

1993 Mitchell Domestic Light Trucks & Vans Service & Repair
Springer Nature

This book highlights electromagnetic actuation (EMA) and sensing systems for a broad range of applications including targeted drug delivery, drug-release-rate control, catheterization, intravitreal needleless injections, wireless magnetic capsule endoscopy, and micromanipulations. It also reviews the state-of-the-art magnetic actuation and sensing technologies with remotely controlled targets used in biomedicine.

Introduction to Quantum Mechanics John Wiley & Sons

Vibration of Hydraulic Machinery deals with the vibration problem which has significant influence on the safety and reliable operation of hydraulic machinery. It provides new achievements and the latest developments in these areas, even in the basic areas of this subject. The present book covers the fundamentals of mechanical vibration and rotordynamics as well as their main numerical models and analysis methods for the vibration prediction. The mechanical and hydraulic excitations to the vibration are analyzed, and the pressure fluctuations induced by the unsteady turbulent flow is predicted in order to obtain the

unsteady loads. This book also discusses the loads, constraint conditions and the elastic and damping characters of the mechanical system, the structure dynamic analysis, the rotor dynamic analysis and the system instability of hydraulic machines, including the illustration of monitoring system for the instability and the vibration in hydraulic units. All the problems are necessary for vibration prediction of hydraulic machinery. *PID and Predictive Control of Electrical Drives and Power Converters using MATLAB / Simulink* Springer Science & Business Media

This book revisits the early systemic formation of meditation practices called 'yoga' in South Asia by employing metaphor theory. Karen O'Brien-Kop also develops an alternative way of analysing the reception history of yoga that aims to decentre the Eurocentric and imperialist enterprises of the nineteenth-century to reframe the cultural period of the 1st - 5th centuries CE using categorical markers from South Asian intellectual history. Buddhist traditions were just as concerned as Hindu traditions with meditative disciplines of yoga. By exploring the intertextuality of the Patanjalyogasastra with texts such as Vasubandhu's *Abhidharmakosabhasya* and Asanga's *Yogacarabhumisastra*, this book highlights and clarifies many ideologically Buddhist concepts and practices in Patanjala yoga. Karen O'Brien-Kop demonstrates that 'classical yoga' was co-constructed systemically by both Hindu and Buddhist thinkers who were drawing on the same conceptual metaphors of the period. This analysis demystifies early yoga-meditation as a timeless 'classical' practice and locates it in a specific material context of agrarian and urban economies.

Understanding Automotive Electronics Bloomsbury Publishing
Increasing demands on the output performance, exhaust emissions, and fuel consumption necessitate the development of a new generation of automotive engine functionality. This monograph is written by a long year developmental automotive engineer and offers a wide coverage of automotive engine control and estimation problems and its solutions. It addresses idle speed control, cylinder flow estimation, engine torque and friction estimation, engine misfire and CAM profile switching diagnostics, as well as engine knock detection. The book provides a wide and well structured collection of tools and new techniques useful for automotive engine control and estimation problems such as input estimation, composite adaptation, threshold detection adaptation, real-time algorithms, as well as the very important statistical techniques. It demonstrates the statistical detection of engine problems such as misfire or knock events and how it can be used to build a new generation of robust engine functionality. This book will be useful for practising automotive engineers, black belts working in the automotive industry as well as for lecturers and students since it provides a wide coverage of engine control and estimation problems, detailed and well structured descriptions of useful techniques in automotive applications and future trends and challenges in engine functionality.

Aptamers for Medical Applications Springer Nature

In present times, certain fields of science are becoming aware of the necessity to go beyond a restrictive specialization, and establish an open dialogue with other disciplines. Such is the case of the approach that neuroscience and philosophy are performing in the last decade. However, this increasing interest in a multidisciplinary perspective should not be understood, in our opinion, as a new phenomenon, but rather as a return to a classical standpoint: a proper understanding of human features –organic, cognitive, volitional, motor or behavioral, for example– requires a context that includes the global dimension of the human being. We believe that grand neuroscientific conclusions

about the mind should take into account what philosophical reflection has said about it; likewise, philosophers should consider the organic constitution of the brain to draw inferences about the mind. Thus, both neuroscience and philosophy would benefit from each other's achievements through a fruitful dialogue. One of the main problems a multidisciplinary group encounters is terminology: the same term has a different scope in various fields, sometimes even contradictory. Such is the case of habits: from a neuroscientific perspective, a habit is a mere automation of an action. It is, therefore, linked to rigidity and limitation. However, from a classical philosophical account, a habit is an enabling capacity acquired through practice, which facilitates, improves and reinforces the performance of certain kind of actions. From neuroscience, habit acquisition restricts a subject's action to the learnt habit; from philosophy, habit acquisition allows the subject to set a distance from the simple motor performance to cognitively enrich the action. For example, playing piano is a technical habit; considering the neuroscientific account, a pianist would just play those sequences of keystrokes that had been repeatedly practiced in the past. However, according to the philosophical perspective, it would allow the pianist to improvise and, moreover, go beyond the movements of their hands to concentrate in other features of musical interpretation. In other words, a holistic view of habits focuses on the subject's disposition when facing both known and novel situations. We believe neuroscience could contribute to achieve a deeper understanding of the neural bases of habits, whose complexity could be deciphered by a philosophical reflection. Thus, we propose this Research Topic to increase our understanding on habits from a wide point of view. This collection of new experimental research, empirical and theoretical reviews, general commentaries and opinion articles covers the following subjects: habit learning; implicit memory; computational and complex dynamical accounts of habit formation; practical, cognitive, perceptual and motor habits; early learning; intentionality; consciousness in habits performance; neurological and psychiatric disorders related to habits, such as obsessive-compulsive disorder, stereotypes or addiction; habits as enabling or limiting capacities for the agent

MEMS Linear and Nonlinear Statics and Dynamics John Wiley & Sons

This book constitutes the thoroughly refereed proceedings of the 12th International Conference on e-Infrastructure and e-Services for Developing Countries, AFRICOMM 2020, held in Ebène City, Mauritius, in December 2020. Due to COVID-19 pandemic the conference was held virtually. The 20 full papers were carefully selected from 90 submissions. The papers are organized in four thematic sections on dynamic spectrum access and mesh networks; wireless sensing and 5G networks; software-defined networking; Internet of Things; e-services and big data; DNS resilience and performance.

Seventh International Conference [on] Automotive Electronics European Control Association

A timely introduction to current research on PID and predictive control by one of the leading authors on the subject *PID and Predictive Control of Electric Drives and Power Supplies using MATLAB/Simulink* examines the classical control system strategies, such as PID control, feed-forward control and cascade control, which are widely used in current practice. The authors share their experiences in actual design and implementation of the control systems on laboratory test-beds, taking the reader from the fundamentals through to more sophisticated design and analysis. The book contains sections on closed-loop performance analysis in both frequency domain and time domain, presented to help the designer in selection of controller parameters and

validation of the control system. Continuous-time model predictive control systems are designed for the drives and power supplies, and operational constraints are imposed in the design. Discrete-time model predictive control systems are designed based on the discretization of the physical models, which will appeal to readers who are more familiar with sampled-data control system. Soft sensors and observers will be discussed for low cost implementation. Resonant control of the electric drives and power supply will be discussed to deal with the problems of bias in sensors and unbalanced three phase AC currents. Brings together both classical control systems and predictive control systems in a logical style from introductory through to advanced levels Demonstrates how simulation and experimental results are used to support theoretical analysis and the proposed design algorithms MATLAB and Simulink tutorials are given in each chapter to show the readers how to take the theory to applications. Includes MATLAB and Simulink software using xPC Target for teaching purposes A companion website is available Researchers and industrial engineers; and graduate students on electrical engineering courses will find this a valuable resource.

Advances in Fluid Dynamics Springer Science & Business Media

This book outlines comprehensively the main medical uses of aptamers, from diagnosis to therapeutics in fourteen chapters. Pioneering topics covered include aptamer pharmaceuticals, aptamers for malign tumors, aptamers for personalized therapeutics and aptamers for point-of-care testing. The book offers an essential guide for medical scientists interested in developing aptamer-based schemes for better theranostics. It is therefore of interest for not only academic researchers, but also practitioners and medical researchers in various fields of medical science, medical research and bio-analytical chemistry.

Distillation Operation Springer Nature

Introduction to Quantum Mechanics covers quantum mechanics from a time-dependent perspective in a unified way from beginning to end. Intended for upper-level undergraduate and

graduate courses this text will change the way people think about and teach quantum mechanics in chemistry and physics departments.

Augmenting Human Manipulation Abilities with Supernumerary Robotic Limbs Springer Science & Business Media

Furnaces sit at the core of all branches of manufacture and industry, so it is vital that these are designed and operated safely and efficiently. This reference provides all of the furnace theory needed to ensure that this can be executed successfully on an industrial scale. *Industrial and Process Furnaces: Principles*, 2nd Edition provides comprehensive coverage of all aspects of furnace operation and design, including topics essential for process engineers and operators to better understand furnaces. This includes: the combustion process and its control, furnace fuels, efficiency, burner design and selection, aerodynamics, heat release profiles, furnace atmosphere, safety and emissions. These elements and more are brought together to illustrate how to achieve optimum design and operation, with real-world case studies to showcase their application. - Up-to-date and comprehensive reference encompassing not only best practice of operation but the essential elements of furnace theory and design, essential to anyone working with furnaces, ovens and combustion-based systems. - More case studies, more worked examples. - New material in this second edition includes further application of Computational Fluid Dynamics (CFD), with additional content on flames and burners, costs, efficiencies and future trends.

Towards new e-Infrastructure and e-Services for Developing Countries Springer Nature

This book describes new methods for building intelligent systems using type-2 fuzzy logic and soft computing (SC) techniques. The authors extend the use of fuzzy logic to a higher order, which is called type-2 fuzzy logic. Combining type-2 fuzzy logic with traditional SC techniques, we can build powerful hybrid intelligent systems that can use the advantages that each technique offers. This book is intended to be a major reference tool and can be used as a textbook.

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