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Forensic Linguistics - John Olsson 2013-12-05
Now in its third edition, John Olsson's practical introduction to forensic linguistics is required reading for students of language and the law.

This third edition has been revised, expanded and updated throughout, and includes new chapters on identifying forensic texts and important interactional aspects of the language

used in legal contexts. There is also a substantial chapter on forensic phonetics by Harry Hollien, a world renowned forensic phonetician. The book includes an appendix of forensic texts for student study, and even more exercises and suggestions for further reading. This practical introduction to forensic linguistics is based on Olsson's extensive experience as a practising forensic linguist and as lecturer on dozens of courses worldwide. Olsson's work has been successfully combined with Luchjenbroers' research into the language used to and by criminals, witnesses and legal professionals, to become essential reading for students, and researchers encountering this branch of applied linguistics for the first time.

Submarine Geomorphology - Aaron Micallef 2017-07-18
This book on the current state of knowledge of submarine geomorphology aims to achieve the goals of the Submarine Geomorphology working group, set up in 2013, by establishing submarine geomorphology as a field of research, disseminating its concepts and techniques among earth scientists and professionals, and encouraging students to develop their skills and knowledge in this field. Editors have invited 30 experts from around the world to contribute chapters to this book, which is divided into 4 sections – (i) Introduction & history, (ii) Data & methods, (ii) Submarine landforms & processes and (iv) Conclusions & future directions. Each chapter provides a review of a topic, establishes the state-of-the-art, identifies the key research questions that need to be addressed, and delineates a strategy on how to achieve this. Submarine geomorphology is a priority for many research institutions, government authorities and industries globally. The book is useful for undergraduate and graduate students, and professionals with limited training in this field.
Robot Dynamics Algorithms - Roy Featherstone 2013-01-17
The purpose of this book is to present

computationally efficient algorithms for calculating the dynamics of robot mechanisms represented as systems of rigid bodies. The efficiency is achieved by the use of recursive formulations of the equations of motion, i.e. formulations in which the equations of motion are expressed implicitly in terms of recurrence relations between the quantities describing the system. The use of recursive formulations in dynamics is fairly new, 50 the principles of their operation and reasons for their efficiency are explained. Three main algorithms are described: the recursIve Newton-Euler formulation for inverse dynamics (the calculation of the forces given the accelerations), and the composite-rigid-body and articulated-body methods for forward dynamics (the calculation of the accelerations given the forces). These algorithms are initially described in terms of an un-branched, open loop kinematic chain -- a typical serial robot mechanism. This is done to keep the descriptions of the algorithms simple, and is in line with descriptions appearing in the literature. Once the basic algorithms have been introduced, the restrictions on the mechanism are lifted and the algorithms are extended to cope with kinematic trees and loops, and general constraints at the joints. The problem of simulating the effect of contact between a robot and its environment is also considered. Some consideration is given to the details and practical problems of implementing these algori?hms on a computer.

CONTROL SYSTEMS, ROBOTICS AND AUTOMATION – Volume XIV - Heinz D. Unbehauen 2009-10-11
This Encyclopedia of Control Systems, Robotics, and Automation is a component of the global Encyclopedia of Life Support Systems EOLSS, which is an integrated compendium of twenty one Encyclopedias. This 22-volume set contains 240 chapters, each of size 5000-30000 words, with perspectives, applications and extensive illustrations. It is the only publication of its kind

carrying state-of-the-art knowledge in the fields of Control Systems, Robotics, and Automation and is aimed, by virtue of the several applications, at the following five major target audiences: University and College Students, Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers and NGOs

CONTROL SYSTEMS, ROBOTICS AND AUTOMATION – Volume IX - Heinz D. Unbehauen 2009-10-11
This Encyclopedia of Control Systems, Robotics, and Automation is a component of the global Encyclopedia of Life Support Systems EOLSS, which is an integrated compendium of twenty one Encyclopedias. This 22-volume set contains 240 chapters, each of size 5000-30000 words, with perspectives, applications and extensive illustrations. It is the only publication of its kind carrying state-of-the-art knowledge in the fields of Control Systems, Robotics, and Automation and is aimed, by virtue of the several applications, at the following five major target audiences: University and College Students, Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers and NGOs.

Introduction to Mobile Robot Control - Spyros G Tzafestas 2013-10-03
Introduction to Mobile Robot Control provides a complete and concise study of modeling, control, and navigation methods for wheeled non-holonomic and omnidirectional mobile robots and manipulators. The book begins with a study of mobile robot drives and corresponding kinematic and dynamic models, and discusses the sensors used in mobile robotics. It then examines a variety of model-based, model-free, and vision-based controllers with unified proof of their stabilization and tracking performance, also addressing the problems of path, motion, and task planning, along with localization and mapping topics. The book provides a host of experimental results, a conceptual overview of

systemic and software mobile robot control architectures, and a tour of the use of wheeled mobile robots and manipulators in industry and society. Introduction to Mobile Robot Control is an essential reference, and is also a textbook suitable as a supplement for many university robotics courses. It is accessible to all and can be used as a reference for professionals and researchers in the mobile robotics field. Clearly and authoritatively presents mobile robot concepts Richly illustrated throughout with figures and examples Key concepts demonstrated with a host of experimental and simulation examples No prior knowledge of the subject is required; each chapter commences with an introduction and background

CONTROL SYSTEMS, ROBOTICS AND AUTOMATION – Volume V - Heinz Unbehauen 2009-10-11
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Human Musculoskeletal Biomechanics - Tarun Goswami 2012-01-05
This book covers many aspects of human musculoskeletal biomechanics. As the title represents, aspects of forces, motion, kinetics, kinematics, deformation, stress, and strain are examined for a range of topics such as human muscles, skeleton, and vascular biomechanics independently or in the presence of devices.

Topics range from image processing to interpret range of motion and/or diseases, to subject specific temporomandibular joint, spinal units, braces to control scoliosis, hand functions, spine anthropometric analyses along with finite element analyses. Therefore, this book will be valuable to students at introductory level to researchers at MS and PhD level searching for science of specific muscle/vascular to skeletal biomechanics. This book will be an ideal text to keep for graduate students in biomedical engineering since it is available for free, students may want to make use of this opportunity. Those that are interested to participate in the future edition of this book, on the same topic, as a contributor please feel free to contact the author.

Complex Engineered Systems - Dan Braha 2007-06-24

This book sheds light on the large-scale engineering systems that shape and guide our everyday lives. It does this by bringing together the latest research and practice defining the emerging field of Complex Engineered Systems. Understanding, designing, building and controlling such complex systems is going to be a central challenge for engineers in the coming decades. This book is a step toward addressing that challenge.

Deterministic Artificial Intelligence - Timothy Sands 2020-05-27

Kirchhoff's laws give a mathematical description of electromechanics. Similarly, translational motion mechanics obey Newton's laws, while rotational motion mechanics comply with Euler's moment equations, a set of three nonlinear, coupled differential equations. Nonlinearities complicate the mathematical treatment of the seemingly simple action of rotating, and these complications lead to a robust lineage of research culminating here with a text on the ability to make rigid bodies in rotation become self-aware, and even learn. This book is meant for basic scientifically inclined readers

commencing with a first chapter on the basics of stochastic artificial intelligence to bridge readers to very advanced topics of deterministic artificial intelligence, espoused in the book with applications to both electromechanics (e.g. the forced van der Pol equation) and also motion mechanics (i.e. Euler's moment equations). The reader will learn how to bestow self-awareness and express optimal learning methods for the self-aware object (e.g. robot) that require no tuning and no interaction with humans for autonomous operation. The topics learned from reading this text will prepare students and faculty to investigate interesting problems of mechanics. It is the fondest hope of the editor and authors that readers enjoy the book. Foundations of Robotics - Tsuneo Yoshikawa 2016

Control Systems, Robotics and AutomatioN – Volume XVI - Heinz D. Unbehauen 2009-10-11

This Encyclopedia of Control Systems, Robotics, and Automation is a component of the global Encyclopedia of Life Support Systems EOLSS, which is an integrated compendium of twenty one Encyclopedias. This 22-volume set contains 240 chapters, each of size 5000-30000 words, with perspectives, applications and extensive illustrations. It is the only publication of its kind carrying state-of-the-art knowledge in the fields of Control Systems, Robotics, and Automation and is aimed, by virtue of the several applications, at the following five major target audiences: University and College Students, Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers and NGOs.

Modelling and Control of Robot Manipulators - Lorenzo Sciavicco 2012-12-06 Fundamental and technological topics are blended uniquely and developed clearly in nine chapters with a gradually increasing level of complexity. A wide variety of relevant problems

is raised throughout, and the proper tools to find engineering-oriented solutions are introduced and explained, step by step. Fundamental coverage includes: Kinematics; Statics and dynamics of manipulators; Trajectory planning and motion control in free space. Technological aspects include: Actuators; Sensors; Hardware/software control architectures; Industrial robot-control algorithms. Furthermore, established research results involving description of end-effector orientation, closed kinematic chains, kinematic redundancy and singularities, dynamic parameter identification, robust and adaptive control and force/motion control are provided. To provide readers with a homogeneous background, three appendices are included on: Linear algebra; Rigid-body mechanics; Feedback control. To acquire practical skill, more than 50 examples and case studies are carefully worked out and interwoven through the text, with frequent resort to simulation. In addition, more than 80 end-of-chapter exercises are proposed, and the book is accompanied by a solutions manual containing the MATLAB code for computer problems; this is available from the publisher free of charge to those adopting this work as a textbook for courses.

Human-Insect Interactions - Sergey Govorushko 2018-01-09
This book presents a 360-degree picture of the world of insects and explores how their existence affects our lives: the "good, bad, and ugly" aspects of their interactions with humankind. It provides a lucid introductory text for beginning undergraduate students in the life sciences, particularly those pursuing beginner courses in entomology, agriculture, and botany.

Control Systems, Robotics and AutomatioN – Volume XI - Heinz D. Unbehauen 2009-10-11
This Encyclopedia of Control Systems, Robotics, and Automation is a component of the global Encyclopedia of Life Support Systems EOLSS, which is an integrated compendium of twenty

one Encyclopedias. This 22-volume set contains 240 chapters, each of size 5000-30000 words, with perspectives, applications and extensive illustrations. It is the only publication of its kind carrying state-of-the-art knowledge in the fields of Control Systems, Robotics, and Automation and is aimed, by virtue of the several applications, at the following five major target audiences: University and College Students, Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers and NGOs.

Ionic Polymer Metal Composites (IMPCs) - Mohsen Shahinpoor 2016
A comprehensive resource on ionic polymer metal composites (IPMCs) edited by the leading authority on the subject.

Neural Fuzzy Control Systems with Structure and Parameter Learning - C. T. Lin 1994
A general neural-network-based connectionist model, called Fuzzy Neural Network (FNN), is proposed in this book for the realization of a fuzzy logic control and decision system. The FNN is a feedforward multi-layered network which integrates the basic elements and functions of a traditional fuzzy logic controller into a connectionist structure which has distributed learning abilities.In order to set up this proposed FNN, the author recommends two complementary structure/parameter learning algorithms: a two-phase hybrid learning algorithm and an on-line supervised structure/parameter learning algorithm.Both of these learning algorithms require exact supervised training data for learning. In some real-time applications, exact training data may be expensive or even impossible to get. To solve this reinforcement learning problem for real-world applications, a Reinforcement Fuzzy Neural Network (RFNN) is further proposed. Computer simulation examples are presented to illustrate the performance and applicability of the proposed FNN, RFNN and their associated

learning algorithms for various applications.

Manual on Livestock Disease Surveillance and Information Systems - 1999
Defining importance of diseases; FAO/EMPRES: a new emphasis; Early detection; The need for surveillance; What is surveillance?; Surveillance on the ground; Putting a surveilance system in place; Surveillance for what?; Surveillance when and how?; Surveillance in resource-poor countries; Information systems; Setting the goals; Determining needs and outputs; Computerisation; Questionnaire design; Databases; Data quality control; Feedback; The role of GIS; Motivating and training field staff; Awareness creation among decision-makers; Using surveillance as a management tool; FAO involvement in surveillance and information systems development; Examples of questionnaires.

Control Systems, Robotics and AutomatioN – Volume XII - Heinz D. Unbehauen 2009-10-11
This Encyclopedia of Control Systems, Robotics, and Automation is a component of the global Encyclopedia of Life Support Systems EOLSS, which is an integrated compendium of twenty one Encyclopedias. This 22-volume set contains 240 chapters, each of size 5000-30000 words, with perspectives, applications and extensive illustrations. It is the only publication of its kind carrying state-of-the-art knowledge in the fields of Control Systems, Robotics, and Automation and is aimed, by virtue of the several applications, at the following five major target audiences: University and College Students, Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers and NGOs.

KI 2010: Advances in Artificial Intelligence - Rüdiger Dillmann 2010-09-08
The 33rd Annual German Conference on Arti?cial Intelligence (KI 2010) took place at the Karlsruhe Institute of Technology KIT, September 21–24, 2010, under the motto "Anthropomatic Systems." In this volume you

will ?nd the keynote paper and 49 papers of oral and poster presentations. The papers were selected from 73 submissions, resulting in an acceptance rate of 67%. As usual at the KI conferences, two entire days were allocated for targeted workshops—seventhis year—andone tutorial. The workshopand tutorialma- rials are not contained in this volume, but the conference website, www.ki2010.kit.edu,will provide information and references to their contents. Recent trends in AI research have been focusing on anthropomatic systems, which address synergies between humans and intelligent machines. This trend is emphasized through the topics of the overall conference program. They include learning systems, cognition, robotics, perception and action, knowledge rep- sentation and reasoning, and planning and decision making. Many topics deal with uncertainty in various scenarios and incompleteness of knowledge. Summarizing, KI 2010 provides a cross section of recent research in modern AI methods and anthropomatic system applications. We are very grateful that Jos´ edel Mill´ an, Hans-Hellmut Nagel, Carl Edward Rasmussen, and David Vernon accepted our invitation to give a talk.

CONTROL SYSTEMS, ROBOTICS AND AUTOMATION – Volume X - Heinz D. Unbehauen 2009-10-11
This Encyclopedia of Control Systems, Robotics, and Automation is a component of the global Encyclopedia of Life Support Systems EOLSS, which is an integrated compendium of twenty one Encyclopedias. This 22-volume set contains 240 chapters, each of size 5000-30000 words, with perspectives, applications and extensive illustrations. It is the only publication of its kind carrying state-of-the-art knowledge in the fields of Control Systems, Robotics, and Automation and is aimed, by virtue of the several applications, at the following five major target audiences: University and College Students, Educators, Professional Practitioners, Research

Personnel and Policy Analysts, Managers, and Decision Makers and NGOs.

CONTROL SYSTEMS, ROBOTICS AND AUTOMATION - Volume II - Heinz Unbehauen 2009-10-11

This Encyclopedia of Control Systems, Robotics, and Automation is a component of the global Encyclopedia of Life Support Systems EOLSS, which is an integrated compendium of twenty one Encyclopedias. This 22-volume set contains 240 chapters, each of size 5000-30000 words, with perspectives, applications and extensive illustrations. It is the only publication of its kind carrying state-of-the-art knowledge in the fields of Control Systems, Robotics, and Automation and is aimed, by virtue of the several applications, at the following five major target audiences: University and College Students, Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers and NGOs.

Public Administration and Law, Third Edition - David H. Rosenbloom 2010-06-23

Since the first edition of Public Administration and Law was published in 1983, it has retained its unique status of being the only book in the field of public administration that analyzes how constitutional law regulates and informs the way administrators interact with each other and the public. Examining First, Fourth, Fifth, Eighth, and Fourteenth Amendment rights as they pertain to these encounters, it explains how public administrators must do their jobs and how administrative systems must operate in order to comply with constitutional law. Explores the conflicts between laws The book begins by presenting a historical account of the way constitutional and administrative law have incrementally "retrofitted" public agencies into the nation's constitutional design. It examines the federal judiciary's impact on federal administration and the effect of the nation's myriad environmental laws on public administration. Next, it focuses on the role of the

individual as a client and customer of public agencies. In a discussion of the Fourth Amendment, it examines street-level encounters between citizens and law enforcement agents. Responding to the rise of the new public management (NPM), it also adds, for the first time in this edition, a chapter that analyzes the rights of the individual not only as a government employee but also as a government contractor. Enhanced with numerous references The final chapters of the book address issues concerning the rights of inmates in administrative institutions and balancing the need to protect individual rights with the ability of agencies to function effectively. Supplemented with case citations and lists of articles, books, and documents, this text is designed to facilitate further study in a constantly evolving area. About the Authors: David H. Rosenbloom, Ph.D. is Distinguished Professor of Public Administration in the School of Public Affairs at American University in Washington, D.C., and Chair Professor of Public Management at City University of Hong Kong. Rosemary O'Leary, Ph.D., J.D. is Distinguished Professor of Public Administration and the Howard G. and S. Louise Phanstiel Chair in Strategic Management and Leadership at Syracuse University. Joshua M. Chanin, M.P.A., J.D. is a Ph.D. candidate in Public Administration and Justice, Law, and Society in the School of Public Affairs at American University in Washington, D.C.

Control Systems, Robotics and AutomatioN – Volume XVII - Heinz D. Unbehauen 2009-10-11

This Encyclopedia of Control Systems, Robotics, and Automation is a component of the global Encyclopedia of Life Support Systems EOLSS, which is an integrated compendium of twenty one Encyclopedias. This 22-volume set contains 240 chapters, each of size 5000-30000 words, with perspectives, applications and extensive illustrations. It is the only publication of its kind carrying state-of-the-art knowledge in the fields

of Control Systems, Robotics, and Automation and is aimed, by virtue of the several applications, at the following five major target audiences: University and College Students, Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers and NGOs.

The Earth's Mantle - Ian Jackson 2000-06-19 The Earth's mantle plays a crucial role in a variety of geologic processes and provides researchers with important insights into the development of our planet. Interdisciplinary in scope, The Earth's Mantle is a comprehensive overview of the composition, structure and evolution of the mantle layer. Striking a balance between established consensus and continuing controversy, the book provides researchers and graduate students with an authoritative review of this important part of our planet. Written by internationally recognized scientists from the Research School of Earth Sciences at the Australian National University, it draws on

perspectives from cosmochemistry, isotope geochemistry, fluid dynamics and petrology, seismology and geodynamics, and mineral and rock physics. The hardback edition received excellent reviews.

CONTROL SYSTEMS, ROBOTICS AND AUTOMATION – Volume XIX - Heinz D. Unbehauen 2009-10-11 This Encyclopedia of Control Systems, Robotics, and Automation is a component of the global Encyclopedia of Life Support Systems EOLSS, which is an integrated compendium of twenty one Encyclopedias. This 22-volume set contains 240 chapters, each of size 5000-30000 words, with perspectives, applications and extensive illustrations. It is the only publication of its kind carrying state-of-the-art knowledge in the fields of Control Systems, Robotics, and Automation and is aimed, by virtue of the several applications, at the following five major target audiences: University and College Students, Educators, Professional Practitioners, Research

Personnel and Policy Analysts, Managers, and Decision Makers and NGOs.

Applied Microbiology and Bioengineering - Pratyoosh Shukla 2018-09-27
Applied Microbiology and Bioengineering: An Interdisciplinary Approach discusses recent advances in microbiology and cutting-edge biotechnology that have generated interest among researchers. The book is divided into several sections, including Enzymes in Bioprocessing, Human Health, Microbial Physiology and Biomedical Applications, and Bioprocess Development. Included are some of the latest developments in the field, like smart actuators for innovative biomedical applications, microalgal antenna engineering for improved bioprocess of biofuel, cell line engineering, and synbiotic foods. It is a useful reference for those in the applied microbiology and biotechnology fields, but will also be useful for practitioners in biotech. Provides insight into the various interdisciplinary research avenues which can be utilized to benefit current researchers and students Covers novel topic areas in the field of applied microbiology, like smart actuators for innovative biomedical application, microbial tyrosinases, production of halophilic alkaline protease, human probiotic applications, and the biotechnological aspects of methylobacterium Reviews innovative bio-processing technologies for horticultural products and the bioprocess development for synbiotic foods

Humanizing Digital Reality - Klaas De Rycke 2017-09-15
This book aims at finding some answers to the questions: What is the influence of humans in controlling CAD and how much is human in control of its surroundings? How far does our reach as humans really go? Do the complex algorithms that we use for city planning nowadays live up to their expectations and do they offer enough quality? How much data do we have and can we control? Are today's inventions reversing the humanly controlled algorithms into

a space where humans are controlled by the algorithms? Are processing power, robots for the digital environment and construction in particular not only there to rediscover what we already knew and know or do they really bring us further into the fields of constructing and architecture? The chapter authors were invited speakers at the 6th Symposium "Design Modelling Symposium: Humanizing Digital Reality", which took place in Ensa-Versailles, France from 16 - 20 September 2017.

Swarm Robotics - Erol Sahin 2007-04-17 This book constitutes the thoroughly refereed post-proceedings of the 2nd SAB 2006 International Workshop on Swarm Robotics held in Rome, Italy in September/October 2006 as a satellite event of SAB 2006, the 9th Conference on Simulation of Adaptive Behavior. The 14 revised full papers are organized in topical sections on algorithms, modeling and analysis, hardware, and evolutionary approaches. *CONTROL SYSTEMS, ROBOTICS AND*

AUTOMATION – Volume XXII - Heinz D. Unbehauen 2009-10-11 This Encyclopedia of Control Systems, Robotics, and Automation is a component of the global Encyclopedia of Life Support Systems EOLSS, which is an integrated compendium of twenty one Encyclopedias. This 22-volume set contains 240 chapters, each of size 5000-30000 words, with perspectives, applications and extensive illustrations. It is the only publication of its kind carrying state-of-the-art knowledge in the fields of Control Systems, Robotics, and Automation and is aimed, by virtue of the several applications, at the following five major target audiences: University and College Students, Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers and NGOs.
CONTROL SYSTEMS, ROBOTICS AND AUTOMATION – Volume IV - Heinz Unbehauen 2009-10-11 This Encyclopedia of Control Systems, Robotics,

and Automation is a component of the global Encyclopedia of Life Support Systems EOLSS, which is an integrated compendium of twenty one Encyclopedias. This 22-volume set contains 240 chapters, each of size 5000-30000 words, with perspectives, applications and extensive illustrations. It is the only publication of its kind carrying state-of-the-art knowledge in the fields of Control Systems, Robotics, and Automation and is aimed, by virtue of the several applications, at the following five major target audiences: University and College Students, Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers and NGOs.

CONTROL SYSTEMS, ROBOTICS AND AUTOMATION – Volume XXI - Heinz D. Unbehauen 2009-10-11
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Springer Handbook of Automation - Shimon Y. Nof 2009-07-16
This handbook incorporates new developments in automation. It also presents a widespread and well-structured conglomeration of new emerging application areas, such as medical systems and health, transportation, security and maintenance, service, construction and retail as well as production or logistics. The handbook is not only an ideal resource for automation

experts but also for people new to this expanding field.

Recent Advances in Technology Research and Education - Dumitru Luca 2017-09-08 This book presents selected contributions to the 16th International Conference on Global Research and Education Inter-Academia 2017 hosted by Alexandru Ioan Cuza University of Iași, Romania from 25 to 28 September 2017. It is the third volume in the series, following the editions from 2015 and 2016. Fundamental and applied research in natural sciences have led to crucial developments in the ongoing 4th global industrial revolution, in the course of which information technology has become deeply embedded in industrial management, research and innovation – and just as deeply in education and everyday life. Materials science and nanotechnology, plasma and solid state physics, photonics, electrical and electronic engineering, robotics and metrology, signal processing, e-learning, intelligent and soft computing have long since been central research priorities for the Inter-Academia Community (I-AC) – a body comprising 14 universities and research institutes from Japan and Central/East-European countries that agreed, in 2002, to coordinate their research and education programs so as to better address today's challenges. The book is intended for use in academic, government, and industrial R&D departments as a reference tool in research and technology education. The 42 peer-reviewed papers were written by more than 119 leading scientists from 14 countries, most of them affiliated to the I-AC.

High Performance Light Water Reactor - Thomas Schulenberg 2014-07-28 Results of the project "High Performance Light Water Reactor--Phase 2," carried out September 2006-February 2010 as part of the 6th European Framework Program.

CONTROL SYSTEMS, ROBOTICS AND AUTOMATION - Volume I - Heinz Unbehauen 2009-10-11

This Encyclopedia of Control Systems, Robotics, and Automation is a component of the global Encyclopedia of Life Support Systems EOLSS, which is an integrated compendium of twenty one Encyclopedias. This 22-volume set contains 240 chapters, each of size 5000-30000 words, with perspectives, applications and extensive illustrations. It is the only publication of its kind carrying state-of-the-art knowledge in the fields of Control Systems, Robotics, and Automation and is aimed, by virtue of the several applications, at the following five major target audiences: University and College Students, Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers and NGOs.

Continuum Mechanics and Thermodynamics - Ellad B. Tadmor 2012
Treats subjects directly related to nonlinear materials modeling for graduate students and researchers in physics, materials science, chemistry and engineering.

CONTROL SYSTEMS, ROBOTICS AND AUTOMATION – Volume - Heinz D. Unbehauen 2009-10-11
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Introduction to Robotics - John J. Craig 2005
Written for senior level or first year graduate level robotics courses, this text includes material

from traditional mechanical engineering, control theoretical material and computer science. It includes coverage of rigid-body transformations and forward and inverse positional kinematics.

Port-Hamiltonian Systems Theory - Schaft Van Der 2014-06-13

Port-Hamiltonian Systems Theory: An Introductory Overview provides a concise and easily accessible description of the foundations underpinning the subject and emphasizes novel developments in the field, which will be of interest to a broad range of researchers.