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What Matters?Research and Education in Robotics - EUROBOT 2011Howling at the MoonA Visual Dictionary of ArchitectureEngineering MechanicsBiobased Polyols for Industrial PolymersExplorations in ComputingPractical Algorithms for 3D Computer Graphics, Second EditionThe Finite Element Method: Its Basis and FundamentalsCardiovascular Soft Tissue MechanicsA Hitchhiker's Guide to Virtual RealityAuditory ProsthesesAdvanced Concepts for Intelligent Vision SystemsThe Economics of WaterDisruptive Behavior DisordersAdvanced Fluid MechanicsParticle Size MeasurementThe Maple BookObject Detection and Recognition in Digital ImagesLearning to Read and WriteQUANTUM MECHANICSLithographySatellite Communications SystemsRobot Dynamics And ControlThe Rietveld MethodAn Introduction to Machine LearningProbability and Stochastic ProcessesMaterials for Advanced PackagingJapan for KidsStructural Geology AlgorithmsUnderstanding and Managing Vision DeficitsWhen Only Love RemainsStrategic Financial Management CasebookLange's Handbook of ChemistryFundamentals of SemiconductorsThe Influence of Polymer Additives on Velocity and Temperature FieldsProceedings of the 12th International Symposium on Computer Science in Sport (IACSS 2019)Discovering Hidden Temporal Patterns in Behavior and InteractionThe Empire of Civil SocietySensors

What Matters?

A cognitive psychologist and an industrial design engineer draw from their experiences trying to make technology work for people to reflect on the foundations of Cognitive Science and Product Design. This work is motivated by the sense that there is a large gap between the type of experiences studied in laboratories and experiences of people working with every day technology. This has led the authors to question the metaphysical foundations of cognitive science and to suggest alternative directions that might provide better insights for design. An important inspiration for this alternative direction is Pirsig's Metaphysics of Quality described in Zen and the Art of Motorcycle Maintenance and Lila. This book takes the reader on a journey beyond the conventional dichotomy of mind and matter to explore a world of 'what matters' in hopes of inspiring the design of human-technology systems that work beautifully.

Research and Education in Robotics - EUROBOT 2011

The replacement of polyols synthesized from petrochemical by polyols originating from natural products, notably from vegetable oils and animal fats, has been the subject of research projects for a number of decades. Very recently, however, the polymers industry has intensified its efforts to include the "green products", such as biobased polyols, in applications already available in the market. Examples of such applications include polyurethane foams, elastomers and epoxides. This

book describes the extraction of the natural constituents of several fruits and plants as well as their chemical conversion to polyols. In addition to the chemistry involved in the process, particular emphasis is attributed to their applications.

Howling at the Moon

Significant progress has been made in advanced packaging in recent years. Several new packaging techniques have been developed and new packaging materials have been introduced. This book provides a comprehensive overview of the recent developments in this industry, particularly in the areas of microelectronics, optoelectronics, digital health, and bio-medical applications. The book discusses established techniques, as well as emerging technologies, in order to provide readers with the most up-to-date developments in advanced packaging.

A Visual Dictionary of Architecture

Strategic Financial Management Casebook strategically uses integrative case studies—cases that do not emphasize specific subjects such as capital budgeting or value based management—to provide a framework for understanding strategic financial management. By featuring holistic presentations, the book puts readers into the shoes of those responsible for the world's largest wealth creators. It covers strategies of growth, mergers and acquisitions, financial performance analysis over the past decade, wealth created in terms of stock returns since its listing in stock market, investment and financial decisions, cost of capital, and corporate valuation. In addition, the casebook also discusses corporate restructuring activities undertaken by each company. Each chapter follows a template to facilitate learning, and each features an Excel-based case analysis worksheet that includes a complete data set for financial analysis and valuation. Introduces a conceptual framework for integrating strategy and finance for value creation Emphasizes the roles of corporate governance, corporate social responsibility, and risk management in value creation Encourages an analysis of investment, financing, and dividend decisions Examines non-financial factors that contribute to value

Engineering Mechanics

[This text] discusses the details of vision therapy for eye movement and visual perceptual deficits. OP [Occupational Therapists] management of vision problems specific to autism, acquired brain injury patients, learning disabled children, developmentally delayed, multiply impaired children, and low vision patients are just a few of the topics covered inside this comprehensive resource.-Back cover.

Biobased Polyols for Industrial Polymers

Show biz memoir at its name-dropping, bridge-burning, profane best: the music industry's most outspoken, outrageous, and phenomenally successful executive delivers a rollicking memoir of pop music's heyday. During the 1970s and '80s the music business was dominated by a few major labels and artists such as Michael Jackson, Bruce Springsteen, the Rolling Stones, Bob Dylan, Billy Joel, Paul Simon, Barbra Streisand and James Taylor. They were all under contract to CBS Records, making it the most successful label of the era. And, as the company's president, Walter Yetnikoff was the ruling monarch. He was also the most flamboyant, volatile and controversial personality to emerge from an industry and era defined by sex, drugs and debauchery. Having risen from working-class Brooklyn and the legal department of CBS, Yetnikoff, who freely admitted to being tone deaf, was an unlikely label head. But he had an uncanny knack for fostering talent and intimidating rivals with his appalling behavior—usually fueled by an explosive combination of cocaine and alcohol. His tantrums, appetite for mind-altering substances and sexual exploits were legendary. In Japan to meet the Sony executives who acquired CBS during his tenure, Walter was assigned a minder who confined him to a hotel room. True to form, Walter raided the minibar, got blasted and, seeing no other means of escape, opened a hotel window and vented his rage by literally howling at the moon. In Howling at the Moon, Yetnikoff traces his journey as he climbed the corporate mountain, danced on its summit and crashed and burned. We see how Walter became the father-confessor to Michael Jackson as the King of Pop reconstructed his face and agonized over his image while constructing Thriller (and how, after it won seven Grammies, Jackson made the preposterous demand that Walter take producer Quincy Jones's name off the album); we see Walter, in maniacal pursuit of a contract, chase the Rolling Stones around the world and nearly come to blows with Mick Jagger in the process; we get the tale of how Walter and Marvin Gaye—fresh from the success of "Sexual Healing"—share the same woman, and of how Walter bonds with Bob Dylan because of their mutual Jewishness. At the same time we witness Yetnikoff's clashes with Barry Diller, David Geffen, Tommy Mottola, Allen Grubman and a host of others. Seemingly, the more Yetnikoff feeds his cravings for power, sex, liquor and cocaine, the more profitable CBS becomes—from $485 million to well over $2 billion—until he finally succumbs, ironically, not to substances, but to a corporate coup. Reflecting on the sinister cycle that left his career in tatters and CBS flush with cash, Yetnikoff emerges with a hunger for redemption and a new reverence for his working-class Brooklyn roots. Ruthlessly candid, uproariously hilarious and compulsively readable, Howling at the Moon is a blistering You'll Never Eat Lunch in this Town Again of the music industry.

Explorations in Computing

Engineering Mechanics: Combined Statics & Dynamics, Twelfth Edition is ideal for civil and mechanical engineering professionals. In his substantial revision of Engineering Mechanics, R.C. Hibbeler empowers students to succeed in the whole learning experience. Hibbeler achieves this by calling on his everyday classroom experience and his knowledge of how students learn inside and outside of lecture. In addition to over 50% new homework problems, the twelfth edition introduces the new elements of Conceptual Problems, Fundamental Problems and MasteringEngineering, the most

technologically advanced online tutorial and homework system.

Practical Algorithms for 3D Computer Graphics, Second Edition

This is the fifth edition of the highly successful work first published in 1968, comprising two definitive volumes on particle characterisation. The first volume is devoted to sampling and particle size measurement, while surface area and pore size determination are reviewed in volume 2. Particle size and characterisation are central to understanding powder properties and behaviour. This book describes numerous potential measuring devices, how they operate and their advantages and disadvantages. It comprise a fully comprehensive treatise on the wide range of available equipment with an extensive literature survey, and a list of manufacturers and suppliers. The author's blend of academic and industrial experience results in a readable technical book with information on how to analyse, present, and extract useful information from data. This is an essential reference book for both industrial and academic research workers in a variety of areas including: pharmaceuticals, food science, pollution analysis and control, electronic materials, agricultural products, polymers, pigments and chemicals.

The Finite Element Method: Its Basis and Fundamentals

Object detection, tracking and recognition in images are key problems in computer vision. This book provides the reader with a balanced treatment between the theory and practice of selected methods in these areas to make the book accessible to a range of researchers, engineers, developers and postgraduate students working in computer vision and related fields. Key features: Explains the main theoretical ideas behind each method (which are augmented with a rigorous mathematical derivation of the formulas), their implementation (in C++) and demonstrated working in real applications. Places an emphasis on tensor and statistical based approaches within object detection and recognition. Provides an overview of image clustering and classification methods which includes subspace and kernel based processing, mean shift and Kalman filter, neural networks, and k-means methods. Contains numerous case study examples of mainly automotive applications. Includes a companion website hosting full C++ implementation, of topics presented in the book as a software library, and an accompanying manual to the software platform.

Cardiovascular Soft Tissue Mechanics

Fluid mechanics is the study of how fluids behave and interact under various forces and in various applied situations, whether in liquid or gas state or both. The author of Advanced Fluid Mechanics compiles pertinent information that are introduced in the more advanced classes at the senior level and at the graduate level. "Advanced Fluid Mechanics courses

typically cover a variety of topics involving fluids in various multiple states (phases), with both elastic and non-elastic qualities, and flowing in complex ways. This new text will integrate both the simple stages of fluid mechanics ("Fundamentals) with those involving more complex parameters, including Inviscid Flow in multi-dimensions, Viscous Flow and Turbulence, and a succinct introduction to Computational Fluid Dynamics. It will offer exceptional pedagogy, for both classroom use and self-instruction, including many worked-out examples, end-of-chapter problems, and actual computer programs that can be used to reinforce theory with real-world applications. Professional engineers as well as Physicists and Chemists working in the analysis of fluid behavior in complex systems will find the contents of this book useful. All manufacturing companies involved in any sort of systems that encompass fluids and fluid flow analysis (e.g., heat exchangers, air conditioning and refrigeration, chemical processes, etc.) or energy generation (steam boilers, turbines and internal combustion engines, jet propulsion systems, etc.), or fluid systems and fluid power (e.g., hydraulics, piping systems, and so on)will reap the benefits of this text. Offers detailed derivation of fundamental equations for better comprehension of more advanced mathematical analysis Provides groundwork for more advanced topics on boundary layer analysis, unsteady flow, turbulent modeling, and computational fluid dynamics Includes worked-out examples and end-of-chapter problems as well as a companion web site with sample computational programs and Solutions Manual

A Hitchhiker's Guide to Virtual Reality

The revised and updated sixth edition of em style="mso-bidi-font-style: normal;"Satellite Communications Systems contains information on the most recent advances related to satellite communications systems, technologies, network architectures and new requirements of services and applications. The authors – noted experts on the topic – cover the state-of-the-art satellite communication systems and technologies and examine the relevant topics concerning communication and network technologies, concepts, techniques and algorithms. New to this edition is information on internetworking with the broadband satellite systems, more intensive coverage of Ka band technologies, GEO high throughput satellite (HTS), LEO constellations and the potential to support the current new broadband Internet services as well as future developments for global information infrastructure. The authors offer details on digital communication systems and broadband networks in order to provide high-level researchers and professional engineers an authoritative reference. The companion website provides slides for instructors to teach and for students to learn. In addition, the book is designed in a user-friendly format.

Auditory Prostheses

Lithography, the fundamental fabrication process of semiconductor devices, plays a critical role in micro- and nano-fabrications and the revolution in high density integrated circuits. This book is the result of inspirations and contributions from many researchers worldwide. Although the inclusion of the book chapters may not be a complete representation of all

lithographic arts, it does represent a good collection of contributions in this field. We hope readers will enjoy reading the book as much as we have enjoyed bringing it together. We would like to thank all contributors and authors of this book.

Advanced Concepts for Intelligent Vision Systems

The Sixth Edition of this influential best-selling book delivers the most up-to-date and comprehensive text and reference yet on the basis of the finite element method (FEM) for all engineers and mathematicians. Since the appearance of the first edition 38 years ago, The Finite Element Method provides arguably the most authoritative introductory text to the method, covering the latest developments and approaches in this dynamic subject, and is amply supplemented by exercises, worked solutions and computer algorithms. • The classic FEM text, written by the subject's leading authors • Enhancements include more worked examples and exercises • With a new chapter on automatic mesh generation and added materials on shape function development and the use of higher order elements in solving elasticity and field problems Active research has shaped The Finite Element Method into the pre-eminent tool for the modelling of physical systems. It maintains the comprehensive style of earlier editions, while presenting the systematic development for the solution of problems modelled by linear differential equations. Together with the second and third self-contained volumes (0750663219 and 0750663227), The Finite Element Method Set (0750664312) provides a formidable resource covering the theory and the application of FEM, including the basis of the method, its application to advanced solid and structural mechanics and to computational fluid dynamics. The classic introduction to the finite element method, by two of the subject's leading authors Any professional or student of engineering involved in understanding the computational modelling of physical systems will inevitably use the techniques in this key text

The Economics of Water

Aggressive behavior among children and adolescents has confounded parents and perplexed professionals—especially those tasked with its treatment and prevention—for countless years. As baffling as these behaviors are, however, recent advances in neuroscience focusing on brain development have helped to make increasing sense of their complexity. Focusing on their most prevalent forms, Oppositional Defiant Disorder and Conduct Disorder, Disruptive Behavior Disorders advances the understanding of DBD on a number of significant fronts. Its neurodevelopmental emphasis within an ecological approach offers links between brain structure and function and critical environmental influences and the development of these specific disorders. The book's findings and theories help to differentiate DBD within the contexts of normal development, non-pathological misbehavior and non-DBD forms of pathology. Throughout these chapters are myriad implications for accurate identification, effective intervention and future cross-disciplinary study. Key issues covered include: Gene-environment interaction models. Neurobiological processes and brain functions. Callous-unemotional traits

and developmental pathways. Relationships between gender and DBD. Multiple pathways of familial transmission. Disruptive Behavior Disorders is a groundbreaking resource for researchers, scientist-practitioners and graduate students in clinical child and school psychology, psychiatry, educational psychology, prevention science, child mental health care, developmental psychology and social work.

Disruptive Behavior Disorders

This book gathers the best papers presented at the Fourth Italian National Conference on Sensors, held in Catania, Italy, from 21 to 23 February 2018. The book represents an invaluable and up-to-the-minute tool, providing an essential overview of recent findings, strategies and new directions in the area of sensor research. Further, it addresses various aspects based on the development of new chemical, physical or biological sensors, assembling and characterization, signal treatment and data handling. Lastly, the book applies electrochemical, optical and other detection strategies to relevant issues in the food and clinical environmental areas, as well as industry-oriented applications.

Advanced Fluid Mechanics

State-of-the-art analysis of geological structures has become increasingly quantitative but traditionally, graphical methods are used in teaching. This innovative lab book provides a unified methodology for problem-solving in structural geology using linear algebra and computation. Assuming only limited mathematical training, the book begins with classic orientation problems and progresses to more fundamental topics of stress, strain and error propagation. It introduces linear algebra methods as the foundation for understanding vectors and tensors, and demonstrates the application of geometry and kinematics in geoscience without requiring students to take a supplementary mathematics course. All algorithms are illustrated with a suite of online MATLAB functions, allowing users to modify the code to solve their own structural problems. Containing 20 worked examples and over 60 exercises, this is the ideal lab book for advanced undergraduates or beginning graduate students. It will also provide professional structural geologists with a valuable reference and refresher for calculations.

Particle Size Measurement

This text presents a series of case studies - including classical Greece, Renaissance Italy and the Portuguese and Spanish empires - to show how the historical-materialist analysis of societies is a better guide to understanding global systems than the theories of standard international relations.

The Maple Book

I've imagined this in my head so many times. I've always thought about what I would say; what I would do, and how it would all turn out to be. And every time I would remove some detail . . . She's a flight attendant—young, bright and living her dream. He's a heartbroken singer on his way to becoming big. She's an ardent fan of his. He can't imagine why and yet seems to find comfort in her words. It's the first time they are together and in their hearts both are wishing, hoping and praying that the night would never end. That the time they are spending together lasts and lasts In the world of love, there is always someone perfectly right for you.

Object Detection and Recognition in Digital Images

The classic, bestselling reference on architecture now revised and expanded! An essential one-volume reference of architectural topics using Francis D.K. Ching's signature presentation. It is the only dictionary that provides concise, accurate definitions illustrated with finely detailed, hand-rendered drawings. From Arch to Wood, every concept, technology, material and detail important to architects and designers are presented in Ching's unique style. Combining text and drawing, each term is given a minimum double-page spread on large format trim size, so that the term can be comprehensively explored, graphically showing relations between concepts and sub-terms A comprehensive index permits the reader to locate any important word in the text. This long-awaited revision brings the latest concepts and technology of 21st century architecture, design and construction to this classic reference work It is sure to be by the side of and used by any serious architect or designer, students of architecture, interior designers, and those in construction.

Learning to Read and Write

This book provides an overview of current activities in the fascinating area between computer science and sports, presenting the state of the art in utilising the latest developments in computer science to support sports coaches and athletes. It covers a broad range of topics reflecting the diversity of this interdisciplinary field, including concepts in informatics like expert systems, modelling, simulation, machine learning, robotics, and sensor integration. Further, it describes applications of computer science in sports, such as alpine skiing, badminton, football, rowing, and table tennis, as well as interesting applications areas of sport like dementia, physiology, training, and space flights. The appeals to informaticians interested in the application field of sports as well as for sports scientists and practitioners looking for advanced methods in their particular sport.

QUANTUM MECHANICS

An Active Learning Approach to Teaching the Main Ideas in Computing Explorations in Computing: An Introduction to Computer Science and Python Programming teaches computer science students how to use programming skills to explore fundamental concepts and computational approaches to solving problems. Tbook gives beginning students an introduction to

Lithography

The Rietveld method is now widely recognized as uniquely valuable for structural analyses of nearly all classes of crystalline materials not available as single crystals. This book is the first graduate text to provide a comprehensive introduction to the technique, with contributors from internationally recognized authorities in the field.

Satellite Communications Systems

The Symposium on "The Influence of Polymer Additives on Veloc ity and Temperature Fields" was proposed to the General Assem bly of the International Union of Theoretical and Applied Me chanics (IUTAM) by the "Gesellschaft fur Angewandte Mathematik und Mechanik" (GAMM). The Symposium was held under the auspices of IUTAM in association with the "Deutsche Rheologische Ge sellschaft" (DRG) with responsibility for the organization ly ing with B. Gampert (Universitat-GH-Essen). The main aim of this IUTAM Symposium was to consider the funda mental aspects of the phenomena that occur when small amounts of polymers are added to turbulent flows (turbulent drag re duction) and laminar porous media flows. In particular atten tion was devoted to - the influence of molecular parameters of the polymers and solution properties, especially the elongational viscosity, on turbulent flow and laminar porous media flow; the influence of polymers on the turbulence structure in polymer drag reduction.

Robot Dynamics And Control

This textbook presents fundamental machine learning concepts in an easy to understand manner by providing practical advice, using straightforward examples, and offering engaging discussions of relevant applications. The main topics include Bayesian classifiers, nearest-neighbor classifiers, linear and polynomial classifiers, decision trees, neural networks, and support vector machines. Later chapters show how to combine these simple tools by way of "boosting," how to exploit them in more complicated domains, and how to deal with diverse advanced practical issues. One chapter is dedicated to the popular genetic algorithms. This revised edition contains three entirely new chapters on critical topics regarding the pragmatic application of machine learning in industry. The chapters examine multi-label domains, unsupervised learning and its use in deep learning, and logical approaches to induction. Numerous chapters have been expanded, and the

presentation of the material has been enhanced. The book contains many new exercises, numerous solved examples, thought-provoking experiments, and computer assignments for independent work.

The Rietveld Method

This special volume of the Journal of Elasticity represents the first in a new p- gram dedicated to the occasional publication of collections of invited, reviewed papers of topical interest. The purpose of this program is to spotlight the dev- opments and applications in the mechanics of materials within specific areas that can enhance growth and provide insight for the advancement of the field as well as promote fundamental understanding and basic discovery. Soft Tissue Mechanics is an area of biomechanics that draws heavily upon f- damental ideas and material models from nonlinear elasticity and viscoelasticity. A major goal of this research is to understand those mechanics properties of heart, artery, collagen and skeletal muscle tissue that can be used for the diagnosis of health problems and the improvement of human life. This volume illustrates how experiment, modeling and computation is currently employed in this emerging field. May 2001 ROGER FOSDICK Editor-in-Chief Journal of Elasticity 61: ix–xii, 2000. ix Preface There are two primary areas for the application of elasticity in the biomechanics of tissues: hard tissue mechanics (e.g., bone, teeth, horns, etc.) and soft tissue - chanics (e.g., skin, tendons, arteries, etc.). The distinguishing feature between these tissue types is the amount of physiological "normal" deformation they experience. While "hard" tissues only experience small deformations, soft tissues typically experience large deformations. From a biomechanics viewpoint soft tissues fall within the realm of finite elasticity.

An Introduction to Machine Learning

Originally published in 1986. This is an excellent resourcebook for the holistic teaching of language and the arts. The book works its way through theories of language acquisition and literacy before specifically discussing the role of the arts in literacy education and the integration approach. Each chapter has an extensive annotated bibliography detailing the resources available. The final listing includes both resources for teachers but also the children. Bridging the gap between theory and practice, this sociopsycholinguistic account will be of great use to anyone seeking a better understanding of teaching and learning reading and writing.

Probability and Stochastic Processes

Maple is a very powerful computer algebra system used by students, educators, mathematicians, statisticians, scientists, and engineers for doing numerical and symbolic computations. Greatly expanded and updated from the author's MAPLE V Primer, The MAPLE Book offers extensive coverage of the latest version of this outstanding software package, MAPLE 7.0

The MAPLE Book serves both as an introduction to Maple and as a reference. Organized according to level and subject area of mathematics, it first covers the basics of high school algebra and graphing, continues with calculus and differential equations then moves on to more advanced topics, such as linear algebra, vector calculus, complex analysis, special functions, group theory, number theory and combinatorics. The MAPLE Book includes a tutorial for learning the Maple programming language. Once readers have learned how to program, they will appreciate the real power of Maple. The convenient format and straightforward style of The MAPLE Book let users proceed at their own pace, practice with the examples, experiment with graphics, and learn new functions as they need them. All of the Maple commands used in the book are available on the Internet, as are links to various other files referred to in the book. Whatever your level of expertise, you'll want to keep The MAPLE Book next to your computer.

Materials for Advanced Packaging

This text introduces engineering students to probability theory and stochastic processes. Along with thorough mathematical development of the subject, the book presents intuitive explanations of key points in order to give students the insights they need to apply math to practical engineering problems. The first seven chapters contain the core material that is essential to any introductory course. In one-semester undergraduate courses, instructors can select material from the remaining chapters to meet their individual goals. Graduate courses can cover all chapters in one semester.

Japan for Kids

Includes entries for amusements, outings, travel tips, health care, shopping, education and activities. Designed mainly for those who go to reside in Japan, but would be good for travellers too.

Structural Geology Algorithms

Practical Algorithms for 3D Computer Graphics, Second Edition covers the fundamental algorithms that are the core of all 3D computer graphics software packages. Using Core OpenGL and OpenGL ES, the book enables you to create a complete suite of programs for 3D computer animation, modeling, and image synthesis. Since the publication of the first edition, implementation aspects have changed significantly, including advances in graphics technology that are enhancing immersive experiences with virtual reality. Reflecting these considerable developments, this second edition presents up-to-date algorithms for each stage in the creative process. It takes you from the construction of polygonal models of real and imaginary objects to rigid body animation and hierarchical character animation to the rendering pipeline for the synthesis of realistic images. New to the Second Edition New chapter on the modern approach to real-time 3D programming using

OpenGL New chapter that introduces 3D graphics for mobile devices New chapter on OpenFX, a comprehensive open source 3D tools suite for modeling and animation Discussions of new topics, such as particle modeling, marching cubes, and techniques for rendering hair and fur More web-only content, including source code for the algorithms, video transformations, comprehensive examples, and documentation for OpenFX The book is suitable for newcomers to graphics research and 3D computer games as well as more experienced software developers who wish to write plug-in modules for any 3D application program or shader code for a commercial games engine.

Understanding and Managing Vision Deficits

This book constitutes the proceedings of the International Conference on Research and Education in Robotics, EUROBOT 2011, held in Prague, Czech Republic, in June 2011. The 28 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers present current basic research such as robot control and behaviour, applications of autonomous intelligent robots, and perception, processing and action; as well as educationally oriented papers addressing issues like robotics at school and at university, practical educational robotics activities, practices in educational robot design, and future pedagogical activities.

When Only Love Remains

The Second Edition of this concise and compact text offers students a thorough understanding of the basic principles of quantum mechanics and their applications to various physical and chemical problems. This thoroughly class-texted material aims to bridge the gap between the books which give highly theoretical treatments and the ones which present only the descriptive accounts of quantum mechanics. Every effort has been made to make the book explanatory, exhaustive and student friendly. The text focuses its attention on problem-solving to accelerate the student's grasp of the basic concepts and their applications. What is new to this Edition : Includes new chapters on Field Quantization and Chemical Bonding. Provides new sections on Rayleigh Scattering and Raman Scattering. Offers additional worked examples and problems illustrating the various concepts involved. This textbook is designed as a textbook for postgraduate and advanced undergraduate courses in physics and chemistry. Solutions Manual containing the solutions to chapter-end exercises is available for instructors. Solution Manual is available for adopting faculty. Click here to request

Strategic Financial Management Casebook

This book constitutes the thoroughly refereed proceedings of the 15th International Conference on Advanced Concepts for Intelligent Vision Systems, ACIVS 2013, held in Poznań, Poland, in October 2013. The 63 revised full papers were carefully

selected from 111 submissions. The topics covered are aquisition, pre-processing and coding, biometry, classification and recognition, depth, 3D and tracking, efficient implementation and frameworks, low level image analysis, segmentation and video analysis.

Lange's Handbook of Chemistry

A Hitchhiker's Guide to Virtual Reality brings together under one cover all the aspects of graphics, video, audio, and haptics that have to work together to make virtual reality a reality. Like any good guide, it reveals the practical things you need to know, from the viewpoint of authors who have been there. This two-part guide covers the science, technology, and mathematics of virtual reality and then details its practical implementation. The first part looks at how the interface between human senses and technology works to create virtual reality, with a focus on vision, the most important sense in virtual reality. The second part of the book is tightly integrated with an accompanying CD, which contains the programs for more than 30 virtual reality projects, ranging in scope from a tool that simulates virtual sculpting to a suite of software for the control of a four-projector immersive virtual environment.

Fundamentals of Semiconductors

This self-contained introduction to practical robot kinematics and dynamics includes a comprehensive treatment of robot control. It provides background material on terminology and linear transformations, followed by coverage of kinematics and inverse kinematics, dynamics, manipulator control, robust control, force control, use of feedback in nonlinear systems, and adaptive control. Each topic is supported by examples of specific applications. Derivations and proofs are included in many cases. The book includes many worked examples, examples illustrating all aspects of the theory, and problems.

The Influence of Polymer Additives on Velocity and Temperature Fields

Discovering hidden recurring patterns in observable behavioral processes is an important issue frequently faced by numerous advanced students and researchers across many research areas, including psychology, biology, sports, robotics, media, finance, and medicine. As generally, themany powerful methods included in statistical software packages were not developed for this kind of analysis, discovering such patterns has proven a particularly difficult task, due to a lack of a) adequate formalized models of the kinds of patterns to look for, b) corresponding detection algorithms and c) their implementation in available software. The research described in this book is based on the application of such pattern types, algorithms and software developed from the late seventies to the present in the context of research in collaboration with human and animal behavioral research teams at internationally leading universities in the US and Europe, thus testing the

usefulness and validity of the pattern types, algorithms and software in numerous research areas. With the (scale independent statistical hierarchical and fractal-like) T-Pattern at its heart, a set of proposed pattern types, called the T-System, forms the basis for the search algorithms implemented as the software THEME (TM) (vs. 6), which is easily available in free educational and full commercial versions.

Proceedings of the 12th International Symposium on Computer Science in Sport (IACSS 2019)

This open access textbook provides a concise introduction to economic approaches and mathematical methods for the study of water allocation and distribution problems. Written in an accessible and straightforward style, it discusses and analyzes central issues in integrated water resource management, water tariffs, water markets, and transboundary water management. By illustrating the interplay between the hydrological cycle and the rules and institutions that govern today's water allocation policies, the authors develop a modern perspective on water management. Moreover, the book presents an in-depth assessment of the political and ethical dimensions of water management and its institutional embeddedness, by discussing distribution issues and issues of the enforceability of human rights in managing water resources. Given its scope, the book will appeal to advanced undergraduate and graduate students of economics and engineering, as well as practitioners in the water sector, seeking a deeper understanding of economic approaches to the study of water management.

Discovering Hidden Temporal Patterns in Behavior and Interaction

Cochlear implants are currently the standard treatment for profound sensorineural hearing loss. In the last decade, advances in auditory science and technology have not only greatly expanded the utility of electric stimulation to other parts of the auditory nervous system in addition to the cochlea, but have also demonstrated drastic changes in the brain in responses to electric stimulation, including changes in language development and music perception. Volume 20 of SHAR focused on basic science and technology underlying the cochlear implant. However, due to the newness of the ideas and technology, the volume did not cover any emerging applications such as bilateral cochlear implants, combined acoustic-electric stimulation, and other types of auditory prostheses, nor did it review brain plasticity in responses to electric stimulation and its perceptual and language consequences. This proposed volume takes off from Volume 20, and expands the examination of implants into new and highly exciting areas. This edited book starts with an overview and introduction by Dr. Fan-Gang Zeng. Chapters 2-9 cover technological development and the advances in treating the full spectrum of ear disorders in the last ten years. Chapters 10-15 discuss brain responses to electric stimulation and their perceptual impact. This volume is particularly exciting because there have been quantum leap from the traditional technology discussed in Volume 20. Thus, this volume is timely and will be of real importance to the SHAR audience.

The Empire of Civil Society

This revised edition of 'Lange's Handbook of Chemistry' provides a vast compilation of facts, data, tabular material and experimental findings in every area of chemistry.

Sensors

Excellent bridge between general solid-state physics textbook and research articles packed with providing detailed explanations of the electronic, vibrational, transport, and optical properties of semiconductors "The most striking feature of the book is its modern outlook provides a wonderful foundation. The most wonderful feature is its efficient style of exposition an excellent book." Physics Today "Presents the theoretical derivations carefully and in detail and gives thorough discussions of the experimental results it presents. This makes it an excellent textbook both for learners and for more experienced researchers wishing to check facts. I have enjoyed reading it and strongly recommend it as a text for anyone working with semiconductors I know of no better text I am sure most semiconductor physicists will find this book useful and I recommend it to them." Contemporary Physics Offers much new material: an extensive appendix about the important and by now well-established, deep center known as the DX center, additional problems and the solutions to over fifty of the problems at the end of the various chapters.

ROMANCE ACTION & ADVENTURE MYSTERY & THRILLER BIOGRAPHIES & HISTORY CHILDREN'S YOUNG ADULT FANTASY HISTORICAL FICTION HORROR LITERARY FICTION NON-FICTION SCIENCE FICTION