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LOGAN CABRERA

Physics Briefs Walter de Gruyter GmbH & Co KG

Written for those who wish to learn Prolog as a powerful software development tool, but do not necessarily have any background in logic or AI.

Includes a full glossary of the technical terms and self-assessment exercises.

Programming Logic and Design BroadStreet Publishing Group LLC

This 2nd edition of the highly successful Global Library and Information Science presents an up-to-date review of international librarianship and library science through insightful and well written chapters contributed by experts and scholars from all regions of the world. The role of public, academic, special, school libraries, as well as library and information science education are presented from the early development to the present time. Its lively, readable approach will help the reader to understand librarianship in Africa, Asia, Australia and New Zealand, Europe, Latin America and the Caribbean, and North America. Edited by Ismail Abdullahi, Professor of Global Library and Information Science, this book is a must-read by library science students and teachers, librarians, and anyone interested in Global Librarianship.

Assessing the Reliability of Complex Models Springer

An Introduction to Quantum Field Theory is a textbook intended for the graduate physics course covering relativistic quantum mechanics, quantum

electrodynamics, and Feynman diagrams. The authors make these subjects accessible through carefully worked examples illustrating the technical aspects of the subject, and intuitive explanations of what is going on behind the mathematics. After presenting the basics of quantum electrodynamics, the authors discuss the theory of renormalization and its relation to statistical mechanics, and introduce the renormalization group. This discussion sets the stage for a discussion of the physical principles that underlie the fundamental interactions of elementary particle physics and their description by gauge field theories.

Logic Programming with Prolog Springer Nature

This textbook introduces the "Fundamentals of Multimedia", addressing real issues commonly faced in the workplace. The essential concepts are explained in a practical way to enable students to apply their existing skills to address problems in multimedia. Fully revised and updated, this new edition now includes coverage of such topics as 3D TV, social networks, high-efficiency video compression and conferencing, wireless and mobile networks, and their attendant technologies. Features: presents an overview of the key concepts in multimedia, including color science; reviews lossless and lossy compression methods for image, video and audio data; examines the demands placed by multimedia communications on wired and wireless networks; discusses the impact of social media and cloud computing on information sharing and on multimedia content search and retrieval; includes study exercises at the end of each chapter; provides supplementary resources for both students and instructors at an associated website.

Simpson's Forensic Medicine Jessica Kingsley Publishers

This advanced textbook presents an extensive and diverse study of low-energy nuclear physics considering the nucleus as a quantum system of

strongly interacting constituents. The contents guide students from the basic facts and ideas to more modern topics including important developments over the last 20 years, resulting in a comprehensive collection of major modern-day nuclear models otherwise unavailable in the current literature. The book emphasizes the common features of the nucleus and other many-body mesoscopic systems currently in the center of interest in physics. The authors have also included full problem sets that can be selected by lecturers and adjusted to specific interests for more advanced students, with many chapters containing links to freely available computer code. As a result, readers are equipped for scientific work in mesoscopic physics.

Theory of Resonance Absorption of Neutrons in a Lump Springer Nature

Advances in computing hardware and algorithms have dramatically improved the ability to simulate complex processes computationally. Today's simulation capabilities offer the prospect of addressing questions that in the past could be addressed only by resource-intensive experimentation, if at all. Assessing the Reliability of Complex Models recognizes the ubiquity of uncertainty in computational estimates of reality and the necessity for its quantification. As computational science and engineering have matured, the process of quantifying or bounding uncertainties in a computational estimate of a physical quality of interest has evolved into a small set of interdependent tasks: verification, validation, and uncertainty of quantification (VVUQ). In recognition of the increasing importance of computational simulation and the increasing need to assess uncertainties in computational results, the National Research Council was asked to study the mathematical foundations of VVUQ and to recommend steps that will ultimately lead to improved processes. Assessing the Reliability of Complex Models discusses changes in education of professionals and dissemination of information that should enhance the ability of future VVUQ practitioners to improve and properly apply VVUQ methodologies to difficult problems, enhance the ability of VVUQ customers to understand VVUQ results and use them to make informed decisions, and enhance the ability of all VVUQ stakeholders to communicate with each other. This report is an essential resource for all decision and policy makers in the field, students, stakeholders, UQ experts, and VVUQ educators and practitioners.

Journal of the Optical Society of America Walter de Gruyter

This fully updated thirteenth edition of Simpson's Forensic Medicine remains a classic introductory text to the field. Continuing its tradition of preparing the next generation of forensic practitioners, it presents essential concepts in the interface between medicine and the law. Twenty-four chapters cover basic science, toxicology, forensic odontology

Jane's Ocean Technology CRC Press

This Open Access book presents practical approaches to managing patients affected by various rheumatological diseases, allowing readers to gain a better understanding of the various clinical expressions and problems experienced by these patients. Discussing rheumatology from an organ systems perspective, it highlights the importance of detailed musculoskeletal examinations when treating patients affected by rheumatological diseases. The book first explores the latest diagnostic approaches and offers key tips for accurate musculoskeletal examinations before addressing the various treatment modalities, with a particular focus on the most common joints involved in rheumatoid arthritis: the wrists and the metacarpophalangeal joints (2nd and 3rd). Featuring easy-to-understand flow diagrams and explaining the common medical problems associated with rheumatic disease, such as shortness of breath and anemia, it is not only a valuable resource to rheumatologists, but will also appeal to medical students, junior residents, and primary healthcare physicians.

Physical Acoustics: Principles and Methods Woodhead Publishing Limited

This is the first ever comprehensive source of information about national archives around the world covers the national archives of all 195 countries recognized by the United Nations (the 193 member states and the 2 that non-member observer states: The Holy See and the State of Palestine) as well as Taiwan (Republic of China).

Basic Epidemiology Springer Science & Business Media

Learn how to solve physics problems the right way How to Solve Physics Problems will prepare you for physics exams by focusing on problem-solving. You will learn to solve physics problems naturally and systematically--and in a way that will stick with you. Not only will it help you with your homework, it will give you a clear idea of what you can expect to encounter on exams. 400 physics problems thoroughly illustrated and explained Math review for the right start New chapters on quantum physics; atoms, molecules, and solids; and nuclear physics

Evaluating the Measurement Uncertainty Springer Science & Business Media

Natural Language Processing and Text Mining not only discusses applications of Natural Language Processing techniques to certain Text Mining tasks, but also the converse, the use of Text Mining to assist NLP. It assembles a diverse views from internationally recognized researchers and emphasizes caveats in the attempt to apply Natural Language Processing to text mining. This state-of-the-art survey is a must-have for advanced students, professionals, and researchers.

The Los Alamos National Laboratory Protective Guard Force Createspace Independent Pub

Uncertainty Quantification in Multiscale Materials Modeling provides a complete overview of uncertainty quantification (UQ) in computational materials science. It provides practical tools and methods along with examples of their application to problems in materials modeling. UQ methods are applied to various multiscale models ranging from the nanoscale to macroscale. This book presents a thorough synthesis of the state-of-the-art in UQ methods for materials modeling, including Bayesian inference, surrogate modeling, random fields, interval analysis, and sensitivity analysis, providing insight into the unique characteristics of models framed at each scale, as well as common issues in modeling across scales.

Physics of Atomic Nuclei IRD Editions

The author has maintained two open-source MATLAB Toolboxes for more than 10 years: one for robotics and one for vision. The key strength of the Toolboxes provide a set of tools that allow the user to work with real problems, not trivial examples. For the student the book makes the algorithms

accessible, the Toolbox code can be read to gain understanding, and the examples illustrate how it can be used —instant gratification in just a couple of lines of MATLAB code. The code can also be the starting point for new work, for researchers or students, by writing programs based on Toolbox functions, or modifying the Toolbox code itself. The purpose of this book is to expand on the tutorial material provided with the toolboxes, add many more examples, and to weave this into a narrative that covers robotics and computer vision separately and together. The author shows how complex problems can be decomposed and solved using just a few simple lines of code, and hopefully to inspire up and coming researchers. The topics covered are guided by the real problems observed over many years as a practitioner of both robotics and computer vision. It is written in a light but informative style, it is easy to read and absorb, and includes a lot of Matlab examples and figures. The book is a real walk through the fundamentals of robot kinematics, dynamics and joint level control, then camera models, image processing, feature extraction and epipolar geometry, and bring it all together in a visual servo system. Additional material is provided at <http://www.petercorke.com/RVC>

Natural Language Processing and Text Mining CRC Press

Theses on any subject submitted by the academic libraries in the UK and Ireland.

Quantum Groups in Three-Dimensional Integrability CRC Press

This book presents international librarianship and library science through insightful and well written chapters contributed by experts and scholars from six regions of the world. The role of public, academic, special, school libraries, as well as library and information science education are presented from the early development to the present time. Its lively, readable approach will help the reader to understand librarianship in Africa, Asia, Australia and New Zealand, Europe, Latin America and the Caribbean, the Middle East, and North America. Edited by Ismail Abdullahi, Professor of Global Library and Information Science, this book is a must-read by library science students and teachers, librarians, and anyone interested in Global Librarianship.

Robotics, Vision and Control National Academies Press

This book begins with the basic terms and definitions and takes a student, step by step, through all areas of medical physics. The book covers radiation therapy, diagnostic radiology, dosimetry, radiation shielding, and nuclear medicine, all at a level suitable for undergraduates. This title not only describes the basic concepts of the field, but also emphasizes numerical and mathematical problems and examples. Students will find An Introduction to Medical Physics to be an indispensable resource in preparations for further graduate studies in the field.

Musculoskeletal Pain - Assessment, Prediction and Treatment Springer Science & Business Media

Musculoskeletal Pain - Assessment, Prediction and Treatment presents a common sense approach to interpreting and applying existing clinical knowledge and new research to help clinicians make sense of the complex phenomena of acute and chronic post-traumatic musculoskeletal pain. Built upon the Assess, Predict, Treat framework, the authors offer a method to help clinicians better understand their patients' pain. They present evidence-based decision tools to predict the natural and clinical course of common conditions, such as neck and low back pain, and they then synthesize that information into a logical, integrated treatment approach, which respects the individuality of the patient, the experiences of the clinician, and the value of evidence-informed practice. David Walton and James Elliott are leaders in the field of post-traumatic pain and recovery. Their work provides a valuable framework to facilitate novice clinicians in their transition towards experts and helps mid- and late-stage clinicians better interpret, synthesize, and discuss complex information on pain with the goal of optimised outcomes for patients.

Physics Reviews Springer Science & Business Media

Civilization is fighting to survive tragic times. On Spiritual Combat is a spiritual warfare guide for military members, law enforcement officers, first responders, and all sheepdogs. It prepares their hearts and minds for battle, teaching them to identify, understand, and fight evil forces. Each day includes: - powerful readings - encouraging Scripture - meaningful hymns - questions for reflection -recommended reading from On Combat, the seminal resource on physical combat by Dave Grossman. With God, we will rise as virtuous Christian warriors who defend and protect the innocent, helpless, and oppressed.

Global Library and Information Science World Health Organization

In this book, readers gain access to real scientific data pertaining to the science of sound production, promoting graph-reading, comparison, contrast, and calculation skills. Graphs show data from the following scientific instruments: Sound Level Meter Tuner This book allows readers to analyze real data without purchasing expensive lab equipment. These data from musical instruments (strings, woodwinds, brass, percussion) can be used for lesson plans by teachers and parents. The musical instruments in this book include violin, flute, clarinet, saxophone, oboe and bassoon reeds, trumpet, trombone, 5 types of recorders (garklein, sopranino, soprano, alto, tenor, and bass), xylophone, drum pad, cymbals, gong, maracas, guiro, claves, triangle, maracas, wood block, castanets, Tibetan bowl, tuning fork, and voice. Bonus Material: Charts comparing tuning systems, instructions on calculating frequencies for different notes and scales, and derivation of the power series underlying just intonation tuning and scales are included. Pictures of the scientific instruments and musical instruments used in Volumes 1 and 2, sample setup pictures and discussion questions regarding laboratory equipment, and pictures of a comparison hydraulic experiment are also included. Notiz: Deutsch Ausgabe separat erhältlich

The International Directory of National Archives Routledge

This textbook provides an accessible introduction to the basic principles of medical physics, the applications of medical physics equipment, and the role of a medical physicist in healthcare. Introduction to Medical Physics is designed to support undergraduate and graduate students taking their first modules on a medical physics course, or as a dedicated book for specific modules such as medical imaging and radiotherapy. It is ideally suited for new teaching schemes such as Modernising Scientific Careers and will be invaluable for all medical physics students worldwide. Key features: Written by an experienced and senior team of medical physicists from highly respected institutions The first book written specifically to introduce medical physics to undergraduate and graduate physics students Provides worked examples relevant to actual clinical situations

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