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A Text for Biologists, Materials Scientists, and Geologists
Fifty Years of the Auto Industry in Japan and the U.S.
Selected Papers from the XXI International Conference on Neuroinformatics, October 7-11, 2019, Dolgoprudny, Moscow Region, Russia
Imaging and Diffraction in Nanoscience
Electric Power Systems
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Theory and Practice
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Microwave Engineering
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Proceedings of the 21st EANN (Engineering Applications of Neural Networks) 2020 Conference
Data Analysis in Astronomy
Border Collie Trainer Because Badass Miracle Worker Isn't an Official Job Title
Introduction to the Physics of Gyrotrons

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A Text for Biologists, Materials Scientists, and Geologists Springer This book provides a comprehensive practical treatment of the modelling of electrical power systems, and the theory and practice of fault analysis of power systems covering detailed and advanced theories as well as modern industry practices. The continuity and quality of electricity delivered safely and economically by today's and future's electrical power networks are important for both developed and developing economies. The correct modelling of power system equipment and correct fault analysis of electrical networks are pre-requisite to ensuring safety and they play a critical role in the identification of economic network investments. Environmental and economic factors require engineers to maximise the use of existing assets which in turn require accurate modelling and analysis techniques. The technology described in this book will always be required for the safe and economic design and operation of electrical power systems. The book describes relevant advances in industry such as in the areas of international standards developments, emerging new generation technologies such as wind turbine generators, fault current limiters, multi-phase fault analysis, measurement of equipment parameters, probabilistic short-circuit analysis and electrical interference. *A fully up-to-date guide to the analysis and practical troubleshooting of short-circuit faults in electricity utilities and industrial power systems *Covers generators, transformers, substations, overhead power lines and industrial systems with a focus on best-practice techniques, safety issues, power system planning and economics *North American and British / European standards covered

Fifty Years of the Auto Industry in Japan and the U.S. Academic Press
The field of electrical engineering has become increasingly diversified, resulting in a spectrum of emerging topics - from microelectromechanics to light-wave technology. Keeping pace with progressing technology, and covering the scope of related subjects, Electric Power Systems provides introductory, fundamental knowledge in several areas. The tex

Selected Papers from the XXI International Conference on Neuroinformatics, October 7-11, 2019, Dolgoprudny, Moscow Region, Russia Springer Science & Business Media
It should appeal to plasma physicists interested in charged-particle dynamics, as well as to applied physicists needing to know more about micro- and millimeter-wave technologies.

Imaging and Diffraction in Nanoscience Springer Science & Business Media

Recent advancements in the field of telecommunications, medical imaging and signal processing deal with signals that are inherently time varying, nonlinear and complex-valued. The time varying, nonlinear characteristics of these signals can be effectively analyzed using artificial neural networks. Furthermore, to efficiently preserve the physical characteristics of these complex-valued signals, it is important to develop complex-valued neural networks and derive their learning algorithms to represent these signals at every step of the learning process. This monograph comprises a collection of new supervised learning algorithms along with novel architectures for complex-valued neural networks. The concepts of meta-cognition equipped with a self-regulated learning have been known to be the best human learning strategy. In this monograph, the principles of meta-cognition have been introduced for complex-valued neural networks in both the batch and sequential learning modes. For applications where the computation time of the training process is critical, a fast learning complex-valued neural network called as a fully complex-valued relaxation network along with its learning algorithm has been presented. The presence of orthogonal decision boundaries helps complex-valued neural networks to outperform real-valued networks in performing classification tasks. This aspect has been highlighted. The performances of various complex-valued neural networks are evaluated on a set of benchmark and real-world function approximation and real-valued classification problems.

Electric Power Systems Springer Nature
This volume expands and updates the coverage in the authors' popular 1992 book, Electron Microdiffraction. As the title implies, the focus of the book has changed from electron microdiffraction and convergent beam electron diffraction to all forms of advanced transmission electron microscopy. Special attention is given to electron diffraction and imaging, including high-resolution TEM and STEM imaging, and the application of these methods to crystals, their defects, and nanostructures. The authoritative text summarizes and develops most of the useful knowledge which has been gained over the years from the study of the multiple electron scattering problem, the recent development of aberration correctors and their applications to materials structure characterization, as well as the authors' extensive teaching experience in these areas. Advanced Transmission Electron Microscopy: Imaging and Diffraction in Nanoscience is ideal for use as an advanced undergraduate or graduate level text in support of course materials in Materials Science, Physics or Chemistry departments.

Proceedings of the International Petroleum and Petrochemical Technology Conference 2019 JHU Press
An important resource that examines the physical aspects of

wireless communications based on mathematical and physical evidence The Physics and Mathematics of Electromagnetic Wave Propagation in Cellular Wireless Communicationdescribes the electromagnetic principles for designing a cellular wireless system and includes the subtle electromagnetic principles that are often overlooked in designing such a system. This important text explores both the physics and mathematical concepts used in deploying antennas for transmission and reception of electromagnetic signals and examines how to select the proper methodology from a wide range of scenarios. In this much-needed guide, the authors—noted experts in the field—explore the principle of electromagnetics as developed through the Maxwellian principles and describe the properties of an antenna in the frequency domain. The text also includes a review of the characterization of propagation path loss in a cellular wireless environment and examines ultrawideband antennas and the mechanisms of broadband transmission of both power and information. This important resource: Includes a discussion of the shortcomings of a MIMO system from both theoretical and practical aspects Demonstrates how to deploy base station antennas with better efficiency Validates the principle and the theoretical analysis of electromagnetic propagation in cellular wireless communication Contains results of experiments that are solidly grounded in mathematics and physics Written for engineers, researchers, and educators who are or plan to work in the field, The Physics and Mathematics of Electromagnetic Wave Propagation in Cellular Wireless Communicationoffers an essential resource for understanding the principles underpinning wireless communications.

An Engineering Guide to Photoinjectors 4xOverland
This book presents the most up-to-date accomplishments in gear design and gear production, detailing theory of gearing and its application. As an enormous number of gears are used in such sectors as automobiles, aerospace, machines, and similar industries, even a very small improvement in the gear design or production, for example a 10 cent savings on each gear, can result in huge of savings in manufacturing, underscoring critical importance of the subject of the book. Giving a solid background in theory together with the latest advances in design and production, the book is ideal for product designers working in numerous industries. The volume also serves as a useful supplement to required texts well for students in mechanical and industrial engineering as it helps establish a scientific foundation to the subject, and facilitates a systematic learning process of gear kinematics, gear geometry, gear design, gear production/finishing operations, and related competencies.

Introduction to Medical Terminology (Book Only) Springer
Simulation is integral to the successful design of modern radar

systems, and there is arguably no better software for this purpose than MATLAB. But software and the ability to use it does not guarantee success. One must also: Ö Understand radar operations and design philosophy Ö Know how to select the radar parameters to meet the design requirements Ö Be able to perform detailed trade-off analysis in the context of radar sizing, modes of operation, frequency selection, waveforms, and signal processing Ö Develop loss and error budgets associated with the design MATLAB Simulations for Radar Systems Design teaches all of this and provides the M-files and hands-on simulation experience needed to design and analyze radar systems. Part I forms a comprehensive description of radar systems, their analysis, and the design process. The authors' unique approach involves a design case study introduced in Chapter 1 and followed throughout the text. As the treatment progresses, the complexity increases and the case study requirements are adjusted accordingly. Part II presents a series of chapters-some authored by other experts in the field-on specialized radar topics important to a full understanding of radar systems design and analysis. A comprehensive set of MATLAB programs and functions support both parts of the book and are available for download from the CRC Press Web site.

Theory and Practice John Wiley & Sons
A practical book written for engineers who design and useantennas The author has many years of hands on experience designingantennas that were used in such applications as the Venus and Marsmissions of NASA The book covers all important topics of modern antenna designfor communications Numerical methods will be included but only as much as areneeded for practical applications

Basic Ship Propulsion Allied Publishers
When the war ended on August IS, 1945, I was a naval engineering cadet at the Kure Navy Yard near Hiroshima, Japan. A week later, I was demobi lized and returned to my home in Tokyo, fortunate not to find it ravaged by firebombing. At the beginning of September, a large contingent of the Ameri can occupation forces led by General Douglas MacArthur moved its base from Yokohama to Tokyo. Near my home I watched a procession of American mili tary motor vehicles snaking along Highway 1. This truly awe-inspiring cavalcade included jeeps, two-and-a-half-ton trucks, and enormous trailers mounted with tanks and artillery. At the time, I was a 21-year-old student in the Machinery Section of Engineering at the Tokyo Imperial University. Watching that mag nificent parade of military vehicles, I was more than impressed by the gap in industrial strength between Japan and the U. S. That realization led me to devote my whole life to the development of the Japanese auto industry. I wrote a small article concerning this incident in Nikkei Sangyo Shimbun (one of the leading business newspapers in Japan) on May 2, 1983. The English translation of this story was carried in the July 3, 1983 edition of the Topeka Capital-Journal and the September 13, 1983 issue of the Asian Wall Street Journal. The Topeka Capital-Journal headline read, "MacArthur's Jeeps Were the Toyota Catalyst.

Results of the HP-SEE User Forum 2012 Springer Science & Business Media
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Power Systems Modelling and Fault Analysis CRC Press
The international Workshop on "Data Analysis in Astronomy" was in tended to give a presentation of experiences that have been acqui red in data analysis and image processing, developments and appli cations that are steadly growing up in Astronomy. The quality and the quantity of ground and satellite observations require more so phisticated data analysis methods and better computational tools. The Workshop has reviewed the present state of the art, explored new methods and discussed a wide range of applications. The topics which have been selected have covered the main fields of interest for data analysis in Astronomy. The Workshop has been focused on the methods used and their

significant applications. Results which gave a major contribution to the physical interpre tation of the data have been stressed in the presentations. Atten tion has been devoted to the description of operational system for data analysis in astronomy. The success of the meeting has been the results of the coordinated effort of several people from the organizers to those who presen ted a contribution and/or took part in the discussion. We wish to thank the members of the Workshop scientific committee Prof. M. Ca paccioli, Prof. G. De Biase, Prof. G. Sedmak, Prof. A. Zichichi and of the local organizing committee Dr. R. Buccheri and Dr. M.C. Macca rone together with Miss P. Savalli and Dr. A. Gabriele of the E. Majo rana Center for their support and the unvaluable part in arranging the Workshop.

An Introduction Cengage Learning
In the last decade, since the publication of the first edition of Scanning Electron Microscopy and X-ray Microanalysis, there has been a great expansion in the capabilities of the basic SEM and EPMA. High resolution imaging has been developed with the aid of an extensive range of field emission gun (FEG) microscopes. The magnification ranges of these instruments now overlap those of the transmission electron microscope. Low-voltage microscopy using the FEG now allows for the observation of noncoated samples. In addition, advances in the develop ment of x-ray wavelength and energy dispersive spectrometers allow for the measurement of low-energy x-rays, particularly from the light elements (B, C, N, 0). In the area of x-ray microanalysis, great advances have been made, particularly with the "phi rho z" [Ij)(pz)] technique for solid samples, and with other quantitation methods for thin films, particles, rough surfaces, and the light elements. In addition, x-ray imaging has advanced from the conventional technique of "dot mapping" to the method of quantitative compositional imaging. Beyond this, new software has allowed the development of much more meaningful displays for both imaging and quantitative analysis results and the capability for integrating the data to obtain specific information such as precipitate size, chemical analysis in designated areas or along specific directions, and local chemical inhomogeneities.

Sound Radiation and Nearfield Acoustical Holography Oxford University Press on Demand
The book describes the experimental techniques employed to study surfaces and interfaces. The emphasis is on the experimental method. Therefore all chapters start with an introduction of the scientific problem, the theory necessary to understand how the technique works and how to understand the results. Descriptions of real experimental setups, experimental results at different systems are given to show both the strength and the limits of the technique. In a final part the new developments and possible extensions of the techniques are presented. The included techniques provide microscopic as well as macroscopic information. They cover most of the techniques used in surface science.

Proceedings of the Sixth IFAC Symposium, Washington DC, USA, 7-11 June 1982 Springer Science & Business Media
This book gathers the proceedings of the 21st Engineering Applications of Neural Networks Conference, which is supported by the International Neural Networks Society (INNS). Artificial Intelligence (AI) has been following a unique course, characterized by alternating growth spurts and "AI winters." Today, AI is an essential component of the fourth industrial revolution and enjoying its heyday. Further, in specific areas, AI is catching up with or even outperforming human beings. This book offers a comprehensive guide to AI in a variety of areas, concentrating on new or hybrid AI algorithmic approaches with robust applications in diverse sectors. One of the advantages of this book is that it includes robust algorithmic approaches and applications in a broad spectrum of scientific fields, namely the use of convolutional neural networks (CNNs), deep learning and LSTM in robotics/machine vision/engineering/image processing/medical systems/the environment; machine learning and meta learning applied to neurobiological modeling/optimization; state-of-the-art hybrid systems; and the

algorithmic foundations of artificial neural networks.
Microwave Engineering Springer Nature
In How to Kill a Dragon Calvert Watkins follows the continuum of poetic formulae in Indo-European languages, from Old Hittite to medieval Irish. He uses the comparative method to reconstruct traditional poetic formulae of considerable complexity that stretch as far back as the original common language. Thus, Watkins reveals the antiquity and tenacity of the Indo-European poetic tradition. Watkins begins this study with an introduction to the field of comparative Indo-European poetics; he explores the Saussurian notions of synchrony and diachrony, and locates the various Indo-European traditions and ideologies of the spoken word. Further, his overview presents case studies on the forms of verbal art, with selected texts drawn from Indic, Iranian, Greek, Latin, Hittite, Armenian, Celtic, and Germanic languages. In the remainder of the book, Watkins examines in detail the structure of the dragon/serpent-slaying myths, which recur in various guises throughout the Indo-European poetic tradition. He finds the "signature" formula for the myth--the divine hero who slays the serpent or overcomes adversaries--occurs in the same linguistic form in a wide range of sources and over millennia, including Old and Middle Iranian holy books, Greek epic, Celtic and Germanic sagas, down to Armenian oral folk epic of the last century. Watkins argues that this formula is the vehicle for the central theme of a proto-text, and a central part of the symbolic culture of speakers of the Proto-Indo-European language: the relation of humans to their universe, the values and expectations of their society. Therefore, he further argues, poetry was a social necessity for Indo- European society, where the poet could confer on patrons what they and their culture valued above all else: "imperishable fame."

The Origin of Competitive Strength John Wiley & Sons
Electrical Circuit Theory and Technology is a fully comprehensive text for courses in electrical and electronic principles, circuit theory and electrical technology. The coverage takes students from the fundamentals of the subject, to the completion of a first year degree level course. Thus, this book is ideal for students studying engineering for the first time, and is also suitable for pre-degree vocational courses, especially where progression to higher levels of study is likely. John Bird's approach, based on 700 worked examples supported by over 1000 problems (including answers), is ideal for students of a wide range of abilities, and can be worked through at the student's own pace. Theory is kept to a minimum, placing a firm emphasis on problem-solving skills, and making this a thoroughly practical introduction to these core subjects in the electrical and electronic engineering curriculum. This revised edition includes new material on transients and laplace transforms, with the content carefully matched to typical undergraduate modules. Free Tutor Support Material including full worked solutions to the assessment papers featured in the book will be available at http://textbooks.elsevier.com/. Material is only available to lecturers who have adopted the text as an essential purchase. In order to obtain your password to access the material please follow the guidelines in the book.

Aspects of Indo-European Poetics Elsevier
Automotive EngineeringHi-Lux Prado1KZ-TE Turbo Diesel EnginesIntroduction to Medical Terminology (Book Only)Cengage Learning

Hi-Lux Prado Createspace Independent Pub
This book is an introduction to the basic theory and engineering of advanced electron beam sources known as photoinjectors. Photoinjectors produce relativistic electrons for exciting new devices such as x-ray free electron lasers and the polarized beams for very high energy physics linear colliders. The chapters are written by renowned experts in the field who share their working knowledge of the technologies needed for designing and building photoinjectors.

Identification and System Parameter Estimation 1982 Springer Nature

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