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This book is a printed edition of
the Special Issue "Stark
Broadening of Spectral Lines in
Plasmas" that was published in
Atoms Phase diagrams are
"maps" materials scientists
often use to design new
materials. They define what
compounds and solutions are
formed and their respective
compositions and amounts
when several elements are
mixed together under a certain
temperature and pressure. This
monograph is the most
comprehensive reference book
on experimental methods for
phase diagram determination.
It covers a wide range of

methods that have been used
to determine phase diagrams of
metals, ceramics, slags, and
hydrides. * Extensive
discussion on methodologies of
experimental measurements
and data assessments * Written
by experts around the world,
covering both traditional and
combinatorial methodologies *
A must-read for experimental
measurements of phase
diagrams Detailed instructions
and illustrations describe how
to create an assortment of
origami animals, and discusses
choosing the necessary
supplies With a billion - soon to
be two billion - cellular
telephones in circulation, the
next challenge is to make
cellular radio functions
adaptive to their environment.
This book provides a
comprehensive theoretical
framework for optimizing
performance, discussing joint
optimization of Noise Figure
and Input Intercept Point in
receiver systems. Also
examined are original
techniques to optimize voltage
controlled oscillators and low-
noise amplifiers, minimizing

power consumption while maintaining adequate system performance. This book presents recent advances in the field of intelligent systems. Composed of fourteen selected chapters, it covers a wide range of research that varies from applications in industrial data science to those in applied science. Today the word INNOVATION is more and more connected with the words INTELLIGENT and SECURITY, as such the book discusses the theory and applications of hot topics such as big data, education applications of robots with different levels of autonomy, knowledge-based modeling and control of complex dynamical systems, sign-based synthesis of behavior, security issues with intelligent systems, innovative intelligent control design, neuromorphic computation, data-driven classification, intelligent modeling and measurement innovations, multisensor data association, personal education assistants, a modern production architecture, study of peer

review and scientometrics, intelligent research on bug report data, and clustering non-Gaussian data. The broad and varied research discussed represents the mainstream of contemporary intelligent innovations that are slowly but surely changing the world.

Zinc-Air Batteries

Authoritative and comprehensive resource covering foundational knowledge of zinc-air batteries as well as their practical applications Zinc-Air Batteries provides a comprehensive understanding of the history and development of Zn-air batteries, with a systematic overview of components, design, and device innovation, along with recent advances in the field, especially with regards to the cathode catalyst design made by cutting-edge materials, engineering processes, and technologies. In particular, design principles regarding the key components of Zn-air batteries, ranging from air cathode, to zinc anode, and to electrolyte, are emphasized. Furthermore,

industrial developments of Zn-air batteries are discussed and emerging new designs of Zn-air batteries are also introduced. The authors argue that designing advanced Zn-air battery technologies is important to the realization of efficient energy storage and conversion—and, going further, eventually holds the key to a sustainable energy future and a carbon-neutral goal. Edited and contributed to by leading professionals and researchers in the field, *Zinc-Air Batteries* also contains information regarding: Design of oxygen reduction catalysts in primary zinc-air batteries, including precious metals, single-atoms, carbons, and transition metal oxides Design of bifunctional oxygen catalysts in rechargeable zinc-air batteries, covering specific oxygen redox reactions and catalyst candidates Design of three-dimensional air cathode in zinc-air batteries, covering loading of carbon-based and transition metal catalysts, plus design of the three-phase interface Design of electrolyte

for zinc-air batteries, including liquid electrolytes (e.g., alkaline) and gel polymer electrolytes (e.g., PVA hydrogel) For students, researchers, and instructors working in battery technologies, materials science, and electrochemistry, and for industry and government representatives for decision making associated with energy and transportation, *Zinc-Air Batteries* summarizes the research results on Zn-air batteries and thereby helps researchers and developers to implement the technology in practice. The papers in this publication address many topics in the context of knowledge-based software engineering, including new challenges that have arisen in this demanding area of research. Topics in this book are: knowledge-based requirements engineering, domain analysis and modeling; development processes for knowledge-based applications; knowledge acquisition; software tools assisting the

development; architectures for knowledge-based systems and shells including intelligent agents; intelligent user interfaces and human-machine interaction; development of multi-modal interfaces; knowledge technologies for semantic web; internet-based interactive applications; knowledge engineering for process management and project management; methodology and tools for knowledge discovery and data mining; knowledge-based methods and tools for testing, verification and validation, maintenance and evolution; decision support methods for software engineering and cognitive systems; knowledge management for business processes, workflows and enterprise modeling; program understanding, programming knowledge, modeling programs and programmers; and software engineering methods for intelligent tutoring systems. The Guitarist's Chord Book by Peter Vogl is a 144 page book that contains over 900 chords with photos to clearly illustrate

each chord and each note of the chord is labeled. This book makes finding chords you want to play easy. It also contains a special moveable chords section with the most widely used shapes for each class of chord. Peter Vogl has also included goodies from his bag of tricks to give you new sounds, shapes, and inspirations for song arrangements. The chord shapes have been reviewed by guitar teachers and players across the country. This is a must read for guitar players of all levels. This book and its companion volume, LNCS 7282 and 7283, constitute the refereed proceedings of the 8th International Conference, EuroHaptics 2012, held in Tampere, Finland, in June 2012. The 99 papers (56 full papers, 32 short papers, and 11 demo papers) presented were carefully reviewed and selected from 153 submissions. Part I contains the full papers whereas Part II contains the short papers and the demo papers. Metallic glasses and their crystal/glass composites

find ever more applications in such fields as mini transformers, microelectromechanical devices, pressure sensors, precision surgical instruments, biological implants and sportive goods (springs, diaphragms, membranes, knife blades, electromagnetic wave shields, optical mirrors, power inductors, Coriolis flow meters, etc.). The book reviews recent research and suggests future developments, e.g. in the area of dual-phase composite/hybrid materials. Keywords: Metallic Glasses, Crystal/Glass Composites, Dual-phase Composite/Hybrid Materials, Supercooled Liquid, Devitrification, Magnetic Materials, Microelectromechanical Devices, Pressure Sensors, Orthopedic Screws, Precision Instruments, Biological Implants, Electromagnetic Wave Shields, Optical Mirrors, Power Inductors, Coriolis Flow Meters. Mechanics of Coatings was chosen as the topic for the 16th Leeds-Lyon Symposium, as it was decided to be a timely

opportunity to bring together experts of many disciplines connected with coatings to find ways of extending the industrial use of these coatings particularly in the field of tribology. The volume contains 51 papers divided into 20 sessions. This book covers the rapidly growing area of friction stir welding. It also addresses the use of the technology for other types of materials processing, including superplastic forming, casting modification, and surface treatments. The book has been prepared to serve as the first general reference on friction stir technology. Information is provided on tools, machines, process modeling, material flow, microstructural development and properties. Materials addressed include aluminum alloys, titanium alloys, steels, nickel-base alloys, and copper alloys. The chapters have been written by the leading experts in this field, representing leading industrial companies and university and government research institutions. This volume deals

with the technologies of crystal fabrication, of crystal machining, and of epilayer production and is the first book on industrial and scientific aspects of crystal and layer production. The major industrial crystals are treated: Si, GaAs, GaP, InP, CdTe, sapphire, oxide and halide scintillator crystals, crystals for optical, piezoelectric and microwave applications and more. Contains 29 contributions from leading crystal technologists covering the following topics: * General aspects of crystal growth technology * Silicon * Compound semiconductors * Oxides and halides * Crystal machining * Epitaxy and layer deposition Scientific and technological problems of production and machining of industrial crystals are discussed by top experts, most of them from the major growth industries and crystal growth centers. In addition, it will be useful for the users of crystals, for teachers and graduate students in materials sciences, in electronic and other

functional materials, chemical and metallurgical engineering, micro-and optoelectronics including nanotechnology, mechanical engineering and precision-machining, microtechnology, and in solid-state sciences. Thermally Conductive Polymer Composites provides an important introduction to the key principles, methods, and research directions of this emerging thermal management material category. This book introduces thermal conduction, measurement methods, thermal conduction mechanisms, and related theories. It also reviews classification and processing techniques which impact thermal conductivity performance. Thermally conductive composites discussed include intrinsically thermally conductive polymers, thermally conductive fillers, and thermally conductive polymer composites. Furthermore, the interfacial thermal resistance is thoroughly explained including basic concepts, theoretical

research, and characterization. Finally, the practical applications of thermally conductive polymer composites are illustrated such as thermally conductive plastics, thermally conductive rubbers, and thermally conductive adhesives. Covers measurement methods, thermal conductivity mechanisms and models. Introduces thermally conductive polymers, intrinsically thermal conductors, fillers and composites, as well as interfaces. Reviews advances in classification and processing techniques (Guitar Educational). Conveniently sized to fit in your guitar case, this handy reference provides easy-to-see photos and easy-to-read chord grids for more than 900 guitar chords open and barre, partial chords and broken set forms. Also includes basic chord theory and fingering principles. Over 250 pages of content! Addressed to readers at different levels of programming expertise, *The Practice of Prolog* offers a

departure from current books that focus on small programming examples requiring additional instruction in order to extend them to full programming projects. It shows how to design and organize moderate to large Prolog programs, providing a collection of eight programming projects, each with a particular application, and illustrating how a Prolog program was written to solve the application. These range from a simple learning program to designing a database for molecular biology to natural language generation from plans and stream data analysis. Leon Sterling is Associate Professor in the Department of Computer Engineering and Science at Case Western Reserve University. He is the coauthor, along with Ehud Shapiro, of *The Art of Prolog*. Contents: A Simple Learning Program, Richard O'Keefe. Designing a Prolog Database for Molecular Biology, Ewing Lusk, Robert Olson, Ross Overbeek, Steve Tuecke. Parallelizing a Pascal

Compiler, Eran Gabber.
PREDITOR: A Prolog-Based
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Lakhota, Leon Sterling.
Natural Language Generation
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Stream Data Analysis in Prolog,
Stott Parker. Now in dynamic
full color, ENGINEERING
FUNDAMENTALS: AN
INTRODUCTION TO
ENGINEERING, 5e helps
students develop the strong
problem-solving skills and solid
foundation in fundamental
principles they will need to
become analytical, detail-
oriented, and creative
engineers. The book opens with
an overview of what engineers
do, an inside glimpse of the
various areas of specialization,
and a straightforward look at
what it takes to succeed. It
then covers the basic physical
concepts and laws that
students will encounter on the
job. Professional Profiles
throughout the text highlight

the work of practicing
engineers from around the
globe, tying in the fundamental
principles and applying them to
professional engineering.
Using a flexible, modular
format, the book demonstrates
how engineers apply physical
and chemical laws and
principles, as well as
mathematics, to design, test,
and supervise the production of
millions of parts, products, and
services that people use every
day. Important Notice: Media
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EDITION Five products on one
DVD every shooter must have:
1. Reference guide that
presents over 55,000 models of
Firearms, Airguns and Ammo
from 500 manufacturers
worldwide (38 countries)! •
Now with Military Firearms -
machine guns, assault rifles,
submachine guns and
automatic pistols. • Computer
searchable with 14 different
search criteria! Find any gun in
a second! • Presents models

with Tech Specs - Hi-Resolution Color Pictures - Features - Ballistics - Prices! • Over 30,000 high-resolution color pictures in resolution up to 6636 x 1492! • Up to 12 pictures per model! Zoom in to see the smallest details! • Guns are presented in different finishes, stock types and stock materials! • Exclusive U.S. and EU custom guns with price tags up to \$1,000,000! • Interlinked ammo and gun database. Check the stopping power of each gun with one click.2. Schematics Library with over 3,000 high resolution gun schematics with parts lists from 268 manufacturers! • Search for a specific gun schematic by manufacturer, then choose the model and zoom in to see the smallest gun parts and print out any schematics 3. FFL Locator - Database of over 62,000 gun dealers in the USA with phone numbers and addresses. When you need a gun dealer find them by type of license, by state and by ZIP code 4. 500 Printable Targets - Print as

many as you like! Choose from a great selection: game animals, silhouettes, crosshairs, sight-ins, fun-to-shoot objects, etc. Both black & white and color targets! 5. US-EU Ammo Caliber Chart - No more hassle trying to figure out which EU ammo caliber is which US ammo caliber. We've figured it out for you, from US to EU and EU to US - works both ways! MATERIALS SCIENCE AND ENGINEERING PROPERTIES is primarily aimed at mechanical and aerospace engineering students, building on actual science fundamentals before building them into engineering applications. Even though the book focuses on mechanical properties of materials, it also includes a chapter on materials selection, making it extremely useful to civil engineers as well. The purpose of this textbook is to provide students with a materials science and engineering text that offers a sufficient scientific basis that engineering properties of materials can be understood by students. In addition to the

introductory chapters on materials science, there are chapters on mechanical properties, how to make strong solids, mechanical properties of engineering materials, the effects of temperature and time on mechanical properties, electrochemical effects on materials including corrosion, electroprocessing, batteries, and fuel cells, fracture and fatigue, composite materials, material selection, and experimental methods in material science. In addition, there are appendices on the web site that contain the derivations of equations and advanced subjects related to the written textbook, and chapters on electrical, magnetic, and photonic properties of materials. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Presents a unique, stepwise exergy-based approach to thermodynamic concepts, systems, and applications Thermodynamics: A Smart

Approach redefines this crucial branch of engineering as the science of energy and exergy—rather than the science of energy and entropy—to provide an innovative, step-by-step approach for teaching, understanding, and practicing thermodynamics in a clearer and easier way. Focusing primarily on the concepts and balance equations, this innovative textbook covers exergy under the second law of thermodynamics, discusses exergy matters, and relates thermodynamics to environmental impact and sustainable development in a clear, simple and understandable manner. It aims to change the way thermodynamics is taught and practiced and help overcome the fear of thermodynamics. Author Ibrahim Dincer, a pioneer in the areas of thermodynamics and sustainable energy technologies, draws upon his multiple decades of experience teaching and researching thermodynamics to offer a

unique exergy-based approach to the subject. Enabling readers to easily comprehend and apply thermodynamic principles, the text organizes thermodynamics into seven critical steps—property, state, process, cycle, first law of thermodynamics, second law of thermodynamics and performance assessment—and provides extended teaching tools for systems and applications. Precise, student-friendly chapters cover fundamental concepts, thermodynamic laws, conventional and innovative power and refrigeration cycles, and more. This textbook: Covers a unique approach in teaching design, analysis and assessment of thermodynamic systems Provides lots of examples for every subject for students and instructors Contains hundreds of illustrations, figures, and tables to better illustrate contents Includes many conceptual questions and study problems Features numerous systems related examples and practical applications Thermodynamics:

A Smart Approach is an ideal textbook for undergraduate students and graduate students of engineering and applied science, as well researchers, scientists, and practicing engineers seeking a precise and concise textbook and/or reference work. The Left-Handed Guitar Chord Book by Peter Vogl contains over 900 chords with photos to clearly illustrate how each chord is played. The chord diagrams are from a left handed guitarists' perspective and show the note value for each string in the chord. This book makes finding chords you want to play easy. It also contains a special moveable chords section with the most widely used shapes for each class of chord. Peter Vogl has also included goodies from his bag of tricks to give you new sounds, shapes, and inspirations for song arrangements. The chord shapes have been reviewed by guitar teachers and players across the country. This is a must read for guitar players of all levels. - Watch & Learn, Inc.

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