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Standard X-ray Diffraction
Powder Patterns Oxford
University Press, USA
Fundamentals of Hydraulic
Engineering Systems, Fourth
Edition is a very useful
reference for practicing

engineers who want to review basic principles and their applications in hydraulic engineering systems. This fundamental treatment of engineering hydraulics balances theory with practical design solutions to common engineering problems. The author examines the most common topics in hydraulics, including hydrostatics, pipe flow, pipelines, pipe networks, pumps, open channel flow, hydraulic structures, water measurement devices, and

hydraulic similitude and model studies. Chapters dedicated to groundwater, deterministic hydrology, and statistical hydrology make this text ideal for courses designed to cover hydraulics and hydrology in one semester.

Mechanical and Metal Trades Handbook Beacon Press
This resource covers all areas of interest for the practicing engineer as well as for the student at various levels and educational institutions. It features the work of authors from all over the world who have contributed their

expertise and support the globally working engineer in finding a solution for today's mechanical engineering problems. Each subject is discussed in detail and supported by numerous figures and tables.

GOLDEN COMMON LISP
World Scientific

The 7th edition of this classic text continues to provide the same high quality material seen in previous editions. The text is extensively rewritten with updated prose for content clarity, superb new problems in new application areas, outstanding instruction on drawing free body diagrams, and new electronic supplements to assist readers.

Furthermore, this edition offers more Web-based problem solving to practice solving problems, with immediate feedback; computational mechanics booklets offer flexibility in introducing Matlab, MathCAD, and/or Maple into your mechanics classroom; electronic figures from the text to enhance lectures by pulling material from the text into Powerpoint or other lecture formats; 100+ additional electronic transparencies offer problem statements and fully worked solutions for use in lecture or as outside study tools. Vector and Tensor Analysis TU Delft CityMaker presents a method and a set of tools

to generate alternative solutions for an urban context. The method proposes the use of a combined set of design patterns encoding typical design moves used by urban designers. The combination of patterns generates different layouts which can be adjusted by manipulating several parameters in relation to updated urban indicators. The patterns were developed from observation of typical urban design procedures, first encoded as

discursive grammars and later translated into parametric design patterns. The CityMaker method and tools allows the designer to compose a design solution from a set of programmatic premises and fine-tune it by pulling parameters whilst checking the changes in urban indicators. These tools improve the designer's awareness of the consequences of their design moves. *Cable TV* Cambridge University Press

'Transport Planning and Traffic Engineering' is a comprehensive textbook on the relevant principles and practice. It includes sections on transport policy and planning, traffic surveys and accident investigation, road design for capacity and safety, and traffic management. Clearly written and illustrated, the

book is ideal reading for students of t
Experiments in Organic Chemistry
Apress
The Definitive Guide to HTML5 WebSocket is the ultimate insider's WebSocket resource. This revolutionary new web technology enables you to harness the power of true real-time connectivity and build responsive, modern web applications. This

book contains everything web developers and architects need to know about WebSocket. It discusses how WebSocket-based architectures provide a dramatic reduction in unnecessary network overhead and latency compared to older HTTP (Ajax) architectures, how to layer widely used protocols such as XMPP and STOMP on top of WebSocket, and how to secure WebSocket

connections and
deploy WebSocket-
based applications to
the enterprise. Build
real-time web
applications with
HTML5. This book:
Introduces you to the
WebSocket API and
protocol Describes
and provides real-
world examples of
protocol
communication over
WebSocket Explains
WebSocket security
and enterprise
deployment
Robots that Talk

and Listen Springer
Nature
Engineering
Mechanics
Blended Learning
Hardinge Simpole
Limited
A general neural-
network-based
connectionist
model, called Fuzzy
Neural Network
(FNN), is proposed
in this book for
the realization of
a fuzzy logic
control and
decision system.

The FNN is a
feedforward multi-
layered network
which integrates
the basic elements
and functions of a
traditional fuzzy
logic controller
into a
connectionist
structure which has
distributed
learning
abilities. In order
to set up this
proposed FNN, the
author recommends
two complementary

structure/parameter learning algorithms: a two-phase hybrid learning algorithm and an on-line supervised structure/parameter learning algorithm. Both of these learning algorithms require exact supervised training data for learning. In some real-time applications, exact training data may be expensive or even impossible to get. To solve this reinforcement learning problem for real-world applications, a Reinforcement Fuzzy Neural Network (RFNN) is further proposed. Computer simulation examples are presented to illustrate the performance and applicability of the proposed FNN, RFNN and their associated learning algorithms for various applications.

The Sober Truth
MACMILLAN

The ideal companion for any teacher interested in the use of technology in the language classroom, Blended Learning provides a practical overview of the technology currently available. It combines basic

information for the technological novice with sophisticated ideas for using technology in the classroom. Teachers are offered practical ideas and suggestions for ways to use technology to enhance and support students' learning. The authors also examine the implications of the use of technology

for language teaching methodology in general. *Scientific and Technical Aerospace Reports* New York, McGraw-Hill
Written specifically for students on the Bar Vocational course, the Bar manuals are updated regularly and are very popular with practitioners as well as students. Engineering Mechanics Springer

Robots That Talk and Listen provides a forward-looking examination of speech and language in robots from technical, functional, and social perspectives. Contributors address cultural foundations as well as the linguistic skills and technologies that robots need to function effectively in real-world settings. Among the most difficult and

complex is the ability to understand and use language. Speech-enabled automata are already serving as interactive toys, teacher's aides, and research assistants. These robots will soon be joined by personal companions, industrial co-workers, and military support automata. The social impact of these and other robots extends well beyond the specific

tasks they perform. Contributors tackle the most knotty of those issues, notably acceptance of advanced, speech-enabled robots and developing ethical and moral controls for robots. Topics in this book include:

- Language and Beyond: The True Meaning of "Speech Enabled"
- Robots in Myth and Media
- Enabling Robots to Converse
- Language Learning Automata
- Handling

Noisy Settings

- Empirical Studies of Robots in Real-World Environments
- Acceptance of Intelligent Robots
- Managing Robots that Can Lie and Deceive
- Envisioning a World Shared with Intelligent Robots

Springer Handbook of Mechanical Engineering CRC Press

"For me and many arbiters, Stewart Reuben's book is our bible." Casto Abundo, Rating Administrator,

Elista FIDE Office. This third edition, as well as updated comprehensive and practical information on all aspects of running tournaments, also contains the new FIDE (World Chess Federation) Official Laws of Chess. These Laws were revised at the Chess Olympiad in Calvia, with changes taking effect from July 2005. • Several new chapters have been added on inputting games, websites, junior chess and peripheral events. • The FIDE Title Regulations have been fully revised since the last edition, substantially due to the efforts of Stewart Reuben. What is provided here are the necessary rules, which will enable an organiser or arbiter to run a title norm event. • Various Swiss Pairing Systems are compared critically. • Information given provides what is practically a blueprint to enable an organiser to put together a tournament. Stewart Reuben is internationally recognised as one of the world's foremost chess organisers and arbiters. He is currently Chairman of the FIDE Organizers Committee; Secretary of the Rules and Tournament Regulations

Committee, member of the Title and Ratings Committee and of the Qualification Commission. He is also past Chairman of the British Chess Federation. He has officiated at and/or organised numerous top-level events, including the World Championship. He holds three FIDE titles: Arbiter, Organizer and Candidate Master.

BUSINESS LAW IN PRACTICE. Springer

Science & Business Media
This book examines the case of reregulating cable television and shows that viewers gained far more than they lost during the brief deregulatory era because cable services expanded so rapidly in the deregulated environment.

Employment Law in Practice Prentice Hall

The development of advanced materials with preselected properties is one

of the main goals of materials research. Of especial interest are electronics, high-temperature and supemard materials for various applications, as well as alloys with improved wear, corrosion and mechanical resistance properties. The technical challenge connected with the production of these

materials is not only associated with the development of new specialised preparation techniques but also with quality control. The energetic charged particle, electron and photon beams offer the possibility of modifying the properties of the near-surface regions of

materials without seriously affecting their bulk, and provide unique analytical tools for testing their quality. This volume includes most of the lectures and contributions delivered at the NATO-funded Advanced Study Institute "Application of Particle and Laser Beams in Materials

Technology", which was held in Kallithea, Chalkidiki, in Northern Greece, from the 8th to the 21st of May, 1994 and attended by 73 participants from 21 countries. The aim of this ASI was to provide to the participants an overview of this rapidly expanding field. Fundamental aspects concerning the interactions

and collisions on atomic, nuclear and solid state scale were presented in a didactic way, along with the application of a variety of techniques for the solution of problems ranging from the development of electronics materials to corrosion research and from archaeometry to

environmental protection.
Machine Learning Models and Algorithms for Big Data Classification
Springer Science & Business Media
An exposé of Alcoholics Anonymous, 12-step programs, and the rehab industry—and how a failed addiction-treatment model came to dominate America. AA has become so infused in our society that it is practically synonymous with addiction recovery. Yet the evidence shows

that AA has only a 5-10 percent success rate—hardly better than no treatment at all. Despite this, doctors, employers, and judges regularly refer addicted people to treatment programs and rehab facilities based on the 12-step model. In *The Sober Truth*, acclaimed addiction specialist Dr. Lance Dodes exposes the deeply flawed science that the 12-step industry has used to support its programs. Dr. Dodes analyzes dozens of studies to

reveal a startling pattern of errors, misjudgments, and biases. He also pores over the research to highlight the best peer-reviewed studies available and discovers that they reach a grim consensus on the program's overall success. But The Sober Truth is more than a book about addiction. It is also a book about science and how and why AA and rehab became so popular, despite the discouraging data. Dr. Dodes explores the entire story of AA's rise, from its origins in early fundamentalist religious and mystical beliefs to its present-day place of privilege in politics and media. The Sober Truth includes true stories from Dr. Dodes's thirty-five years of clinical practice, as well as firsthand accounts submitted by addicts through an open invitation on the Psychology Today website. These stories vividly reveal the experience of walking the steps and attending some of the nation's most famous rehabilitation centers. The Sober Truth builds a powerful response to the monopoly of the 12-step program and explodes the myth that these programs offer an acceptable or universal solution to the deeply personal problem of addiction. This book offers new and actionable information for addicts, their families, and medical providers, and lays out better ways to understand addiction for those seeking a more effective and

compassionate approach to this treatable problem.

The Chess Organiser's Handbook Engineering MechanicsThe 7th edition of this classic text continues to provide the same high quality material seen in previous editions. The text is extensively rewritten with updated prose for content clarity, superb new problems in new application areas, outstanding instruction on drawing free body diagrams, and new electronic supplements to assist readers. Furthermore, this edition offers more Web-based problem solving to practice solving problems, with immediate feedback; computational mechanics booklets offer flexibility in introducing Matlab, MathCAD, and/or Maple into your mechanics classroom; electronic figures from the text to enhance lectures by pulling material from the text into Powerpoint or other lecture formats; 100+ additional electronic transparencies offer problem statements and fully worked solutions for use in lecture or as outside study tools. Employment Law in Practice This textbook provides comprehensive coverage for courses

in the basics of design and implementation of digital filters. The book assumes only basic knowledge in digital signal processing and covers state-of-the-art methods for digital filter design and provides a simple route for the readers to design their own filters. The advanced mathematics that is required for the filter design is minimized by

providing an extensive MATLAB toolbox with over 300 files. The book presents over 200 design examples with MATLAB code and over 300 problems to be solved by the reader. The students can design and modify the code for their use. The book and the design examples cover almost all known design methods of frequency-selective digital filters as well as some of the

authors' own, unique techniques.

Application of Particle and Laser Beams in Materials Technology McGraw-Hill/Irwin

This book presents machine learning models and algorithms to address big data classification problems. Existing machine learning techniques like the decision tree (a hierarchical

approach), random forest (an ensemble hierarchical approach), and deep learning (a layered approach) are highly suitable for the system that can handle such problems. This book helps readers, especially students and newcomers to the field of big data and machine learning, to gain a quick understanding of the techniques and technologies; therefore, the theory, examples, and programs (Matlab and R) presented in this book have been simplified, hardcoded, repeated, or spaced for improvements. They provide vehicles to test and understand the complicated concepts of various topics in the field. It is expected that the readers adopt these programs to experiment with the examples, and then modify or write their own programs toward advancing their knowledge for solving more complex and challenging problems. The presentation format of this book focuses on simplicity, readability, and

dependability so that both undergraduate and graduate students as well as new researchers, developers, and practitioners in this field can easily trust and grasp the concepts, and learn them effectively. It has been written to reduce the mathematical complexity and help the vast majority

of readers to understand the topics and get interested in the field. This book consists of four parts, with the total of 14 chapters. The first part mainly focuses on the topics that are needed to help analyze and understand data and big data. The second part covers the topics that can explain the systems

required for processing big data. The third part presents the topics required to understand and select machine learning techniques to classify big data. Finally, the fourth part concentrates on the topics that explain the scaling-up machine learning, an important solution for modern big data problems.

FNSACC301A Jessica Kingsley Publishers Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

A short introduction perfect for any 16- to 18-year-old, about to begin studies in mathematics.

Transport Planning

and Traffic Engineering

This unit describes the skills and knowledge required to care for people with life-threatening or life-limiting illness and/or normal ageing process within a palliative approach. This unit applies to workers in a residential or community context.

Work performed requires some discretion and judgement and is

carried out under regular direct or indirect supervision.