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Characterization, Modeling, Monitoring, and
Remediation of Fractured Rock
Handbook of Wind Energy Aerodynamics
Food Hydrocolloids
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Building Intelligent Tutoring Systems for Teams
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TALAN KELLEY

Characterization,
Modeling, Monitoring,

*and Remediation of
Fractured Rock*

Birkhäuser

This up-to-date reference covers the thermal design, operation and maintenance of the three major components in industrial heating and air conditioning systems including fossil fuel-fired boilers, waste heat boilers and air conditioning evaporators. Among the distinguishing features covered are: the numerous types of components in use and the features and relative merits of each, overviews of the major technical sections of the book, with suggested approaches to design based on industrial experience, case studies and examples of actual engineering problems,

design methods and procedures based on current industrial practice in the United States, Russia, China and Europe with data charts, tables and thermal-hydraulic correlations for design included, and various approaches to design based on experience in the art of industrial process equipment design.

*Handbook of Wind
Energy Aerodynamics*

US Army Research
Laboratory

The book addresses some of the most recent issues, with the theoretical and methodological aspects, of evolutionary multi-objective optimization problems and the various design challenges using different hybrid intelligent approaches.

Multi-objective optimization has been available for about two decades, and its application in real-world problems is continuously increasing. Furthermore, many applications function more effectively using a hybrid systems approach. The book presents hybrid techniques based on Artificial Neural Network, Fuzzy Sets, Automata Theory, other metaheuristic or classical algorithms, etc. The book examines various examples of algorithms in different real-world application domains as graph growing problem, speech synthesis, traveling salesman problem, scheduling problems, antenna design, genes design, modeling of

chemical and biochemical processes etc.

Food Hydrocolloids

John Wiley & Sons
Microfluidics and BioMEMS Applications
central idea is on microfluidics, a relatively new research field which finds its niche in biomedical devices, especially on lab-on-a-chip and related products. Being the essential component in providing driving fluidic flows, an example of micropump is chosen to illustrate a complete cycle in development of microfluidic devices which include literature review, designing and modelling, fabrication and testing. A few articles are included to demonstrate the idea of tackling this research problem, and they cover the main

development scope discussed earlier as well as other advanced modelling schemes for microfluidics and beyond. Scientists and students working in the areas of MEMS and microfluidics will benefit from this book, which may serve both communities as both a reference monograph and a textbook for courses in numerical simulation, and design and development of microfluidic devices.

International

Aerospace Abstracts

Springer Nature

Pediatric incontinence: evaluation and clinical management offers urologists practical, 'how-to' clinical guidance to what is a very common problem affecting up to 15% of children aged 6 years old. Introductory chapters cover the

neurophysiology, psychological and genetic aspects, as well as the urodynamics of incontinence, before it moves on to its core focus, namely the evaluation and management of the problem. All types of management methods will be covered, including behavioural, psychological, medical and surgical, thus providing the reader with a solution to every patient's specific problem. The outstanding editor team led by Professor Israel Franco, one of the world's leading gurus of pediatric urology, have recruited a truly stellar team of contributors each of whom have provided first-rate, high-quality contributions on their specific areas of

expertise. Clear management algorithms for each form of treatment support the text, topics of controversy are covered openly, and the latest guidelines from the ICCS, AUA and EAU are included throughout. Perfect to refer to prior to seeing patients on the wards and in the clinics, this is the ideal guide to the topic and an essential purchase for all urologists, pediatric urologists and paediatricians managing children suffering from incontinence.

Building Intelligent Tutoring Systems for Teams National Academies Press

In recent years the need for sustainable process design and alternative reaction routes to reduce

industry's impact on the environment has gained vital importance. The book begins with a general overview of new trends in designing industrial chemical processes which are environmentally friendly and economically feasible. Specific examples written by experts from industry cover the possibilities of running industrial chemical processes in a sustainable manner and provide an up-to-date insight into the main concerns, e.g., the use of renewable raw materials, the use of alternative energy sources in chemical processes, the design of intrinsically safe processes, microreactor and integrated reaction/separation

technologies, process intensification, waste reduction, new catalytic routes and/or solvent and process optimization.

Real-World

Applications of Genetic Algorithms Royal Society of Chemistry

This handbook provides both a comprehensive overview and deep insights on the state-of-the-art methods used in wind turbine aerodynamics, as well as their advantages and limits. The focus of this work is specifically on wind turbines, where the aerodynamics are different from that of other fields due to the turbulent wind fields they face and the resultant differences in structural requirements. It gives a complete picture of

research in the field, taking into account the different approaches which are applied. This book would be useful to professionals, academics, researchers and students working in the field.

Design

Recommendations for Intelligent Tutoring Systems Springer Science & Business Media

This textbook presents the process of aircraft conceptual design as seen in industry aircraft design groups. It contains design methods, illustrations, tips, explanations and equations, and has extensive appendices with key data for design.

**Design
Recommendations
for Intelligent
Tutoring Systems:**

Volume 6 - Team

Tutoring John Wiley & Sons

Vols. for 1964- have guides and journal lists.

Distributed Propulsion

Technology Elsevier
Microfluidic technology is revolutionising a number of scientific fields, including chemistry, biology, diagnostics, and engineering. The ability to manipulate fluids and objects within networks of micrometre-scale channels allows reductions in processing and analysis times, reagent and sample consumption, and waste production, whilst allowing fine control and monitoring of chemical or biological processes. The integration of

multiple components and processes enable “lab-on-a-chip” devices and “micro total analysis systems” that have applications ranging from analytical chemistry, organic synthesis, and clinical diagnostics to cell biology and tissue engineering. This concise, easy-to-read book is perfectly suited for instructing newcomers on the most relevant and important aspects of this exciting and dynamic field, particularly undergraduate and postgraduate students embarking on new studies, or for those simply interested in learning about this widely applicable technology. Written by a team with more than 20 years of experience in microfluidics

research and teaching, the book covers a range of topics and techniques including fundamentals (e.g. scaling laws and flow effects), microfabrication and materials, standard operations (e.g. flow control, detection methods) and applications. Furthermore, it includes questions and answers that provide for the needs of students and teachers in the area.

Pediatric Incontinence Springer
Quantum gravity has developed into a fast-growing subject in physics and it is expected that probing the high-energy and high-curvature regimes of gravitating systems will shed some light on how to eventually achieve an ultraviolet

complete quantum theory of gravity. Such a theory would provide the much needed information about fundamental problems of classical gravity, such as the initial big-bang singularity, the cosmological constant problem, Planck scale physics and the early-time inflationary evolution of our Universe. While in the first part of this book concepts of quantum gravity are introduced and approached from different angles, the second part discusses these theories in connection with cosmological models and observations, thereby exploring which types of signatures of modern and mathematically rigorous frameworks can be detected by experiments. The third

and final part briefly reviews the observational status of dark matter and dark energy, and introduces alternative cosmological models. Edited and authored by leading researchers in the field and cast into the form of a multi-author textbook at postgraduate level, this volume will be of benefit to all postgraduate students and newcomers from neighboring disciplines wishing to find a comprehensive guide for their future research.

Boilers, Evaporators, and Condensers John Wiley & Sons

This volume provides practitioners with a practical, easy to read, well organized approach to the performance and analysis of

urodynamics in order to optimize their usage clinically. Chapters are structured around specific types of patterns seen on urodynamic tracings. These urodynamic tracings are annotated and fully interpreted by the authors. Multiple examples of each type of tracing are provided with expert commentary. The expert commentary expands on the potential clinical significance of the tracing, provides a differential diagnosis, and, where appropriate, discusses its importance diagnostically, prognostically and the implications for clinical management. The text contains chapters on virtually all the relevant urodynamic findings and clinical

conditions seen in practice, including lower urinary tract conditions in both adults and children, neurogenic and non-neurogenic dysfunction, and other commonly seen conditions such as lower urinary tract obstruction, vaginal prolapse, and detrusor overactivity. The material is also presented in a practical manner, with special consideration to the latest national and international guidelines. Written by authorities in the field, *Rapid and Practical Interpretation of Urodynamics* is a valuable resource that fills a key gap by providing a systematic method of interpretation of urodynamic tracings in an easy to understand

textbook that will benefit urologic trainees and experienced urologists alike.

Design

Recommendations for Intelligent Tutoring Systems Nova Science Publishers

Living in biofilms is the common way of life of microorganisms, transiently immobilized in their matrix of extracellular polymeric substances (EPS), interacting in many ways and using the matrix as an external digestion and protection system. This is how they have organized their life in the environment, in the medical context and in technical systems – and has helped make them the oldest, most successful and ubiquitous form of life. In this book, hot spots

in current biofilm research are presented in critical and sometimes provocative chapters. This serves a twofold purpose: to provide an overview and to inspire further discussions. Above all, the book seeks to stimulate lateral thinking.

Coupling of Fluids, Structures and Waves in Aeronautics John Wiley & Sons

This volume contains the proceedings of a workshop held in Melbourne, Australia, entitled "Coupling of Fluids, Structures and Waves in Aeronautics". The 22 papers deal with new computational methods for multi-disciplinary design in aeronautics. They are grouped into chapters on fluids, structures, electromagnetics,

optimisation, mathematical methods and tools, and aircraft design. Several papers treat coupling of these themes in a multi-physics setting. Included is a 17-page report of a Round Table discussion entitled "Future Tools for Design and Manufacture of Innovative Products in the Aeronautics Industry", together with a summary of important themes and issues. This research promotes the advanced technologies necessary for continued development of efficient and environmentally sustainable transport systems.

Rapid and Practical Interpretation of Urodynamics BoD – Books on Demand

It is now well recognised that the texture of foods is an important factor when consumers select particular foods. Food hydrocolloids have been widely used for controlling in various food products their viscoelasticity, emulsification, gelation, dispersion, thickening and many other functions. An international journal, FOOD HYDROCOLLOIDS, launched in 1986 has published a number of stimulating papers, and established an active forum for promoting the interaction between academics and industrialists and for combining basic scientific research with industrial development. Although there have been

various research groups in many food processing areas in Japan, such as fish paste (kamaboko, surimi), soybean curd (tofu), agar jelly dessert, kuzu starch jelly, kimizu (Japanese style mayonnaise), their activities have been conducted in isolation of one another. The interaction between the various research groups operating in the various sectors has been weak. Symposia on food hydrocolloids have been organised on several occasions in Japan since 1985. Professor Glyn O. Phillips, the Chief Executive Editor of FOOD HYDROCOLLOIDS, suggested to us that we should organise an international conference on food

hydrocolloids. We discussed it on many occasions, and eventually decided to organise such a meeting, and extended the scope to include recent development in proteinaceous hydrocolloids, and their nutritional aspects, in addition to polysaccharides and emulsions.

Aircraft Design / RDS-Student Springer Science & Business Media

This volume explores advances in theory, research and technologies needed to advance the state of the art of intelligent tutoring systems (ITSs) for teams.

Science Abstracts
Springer

This book on team tutoring is the sixth in a planned series of books that examine

key topics (e.g., learner modeling, instructional strategies, authoring, domain modeling, assessment, impact on learning, team tu-toring, machine learning for self-improving systems, potential standards, and learning effect evaluation methods) in intelligent tutoring system (ITS) design.

This book focuses on team tutoring. The discussion chapters in this book examine topics through the lens of the Generalized Intelligent Framework for Tutoring (GIFT) (Sottolare, Brawner, Goldberg & Holden, 2012; Sottolare, Brawner, Sinatra, & Johnston, 2017). GIFT is a modular, service-oriented architecture created to reduce the cost and skill required

to author ITSs, distribute ITSs, manage instruction within ITSs, and evaluate the effect of ITS technologies on learning, performance, retention, transfer of skills, and other instructional outcomes. Along with this volume, the first five books in this series, Learner Modeling (ISBN 978-0-9893923-0-3), Instructional Management (ISBN 978-0-9893923-2-7), Authoring Tools (ISBN 978-0-9893923-6-5), Domain Modeling (978-0-9893923-9-6) and Assessment Methods (ISBN 978-0-9977257-2-8) are freely available at www.GIFTtutoring.org and on Google Play.

Biofilm Highlights
Springer Science & Business Media
Design

Recommendations for Intelligent Tutoring Systems explores the impact of intelligent tutoring system design on education and training. Specifically, this volume examines “Instructional Management” techniques, strategies and tactics, and identifies best practices, emerging concepts and future needs to promote efficient and effective adaptive tutoring solutions. Design recommendations include current, projected, and emerging capabilities within the Generalized Intelligent Framework for Tutoring (GIFT), an open source, modular, service-oriented architecture developed to promote simplified authoring, reuse, standardization,

automated instructional management and analysis of tutoring technologies.

Bibliography of Agriculture with Subject Index

Emerald Group Publishing

Tribology, the science of friction, wear and lubrication, is one of the cornerstones of engineering's quest for efficiency and conservation of resources. Tribology and dynamics of engine and powertrain: fundamentals, applications and future trends provides an authoritative and comprehensive overview of the disciplines of dynamics and tribology using a multi-physics and multi-scale approach to improve automotive engine and powertrain

technology. Part one reviews the fundamental aspects of the physics of motion, particularly the multi-body approach to multi-physics, multi-scale problem solving in tribology.

Fundamental issues in tribology are then described in detail, from surface phenomena in thin-film tribology, to impact dynamics, fluid film and elastohydrodynamic lubrication means of measurement and evaluation. These chapters provide an understanding of the theoretical foundation for Part II which includes many aspects of the physics of motion at a multitude of interaction scales from large displacement dynamics to noise and vibration

tribology, all of which affect engines and powertrains. Many chapters are contributed by well-established practitioners disseminating their valuable knowledge and expertise on specific engine and powertrain sub-systems. These include overviews of engine and powertrain issues, engine bearings, piston systems, valve trains, transmission and many aspects of drivetrain systems. The final part of the book considers the emerging areas of microengines and gears as well as nano-scale surface engineering. With its distinguished editor and international team of academic and industry contributors, Tribology and dynamics of engine

and powertrain is a standard work for automotive engineers and all those researching NVH and tribological issues in engineering. Reviews fundamental aspects of physics in motion, specifically the multi-body approach to multi-physics Describes essential issues in tribology from surface phenomena in thin film tribology to impact dynamics Examines specific engine and powertrain sub-systems including engine bearings, piston systems and valve trains

Astronomy and Astrophysics Monthly Index Springer Science & Business Media

This text provides a comprehensive, practical, evidence-based guide to the field. It covers each

stage of the rehabilitation process from initial assessment, diagnosis and treatment, to return to pre-injury fitness and injury prevention. Presenting a holistic approach, this text also addresses the nutritional and psychological aspects of the rehabilitation process for the amateur sports enthusiast as well as elite athletes. Divided into five parts, Parts I, II and III cover screening and assessment, the pathophysiology of sports injuries and healing and the various stages of training during the rehabilitation process. Part IV covers effective clinical decision making, and Part V covers joint specific injuries and

pathologies in the shoulder, elbow wrist and hand, groin and knee. Key features: Comprehensive. Covers the complete process from diagnosis and treatment to rehabilitation and prevention of injuries. Practical and relevant. Explores numerous real world case studies and sample rehabilitation programmes to show how to apply the theory in practice. Cutting Edge. Presents the latest research findings in each area to provide an authoritative guide to the field.

Applied Mechanics Reviews Springer
Science & Business
Media
Design
Recommendations for
Intelligent Tutoring
Systems (ITSs)
explores the impact of

intelligent tutoring system design on education and training. Specifically, this volume examines "Domain Modeling". The "Design Recommendations book series examines tools and methods to reduce the time and skill required to develop Intelligent Tutoring Systems with the goal of improving the Generalized

Intelligent Framework for Tutoring (GIFT). GIFT is a modular, service-oriented architecture developed to capture simplified authoring techniques, promote reuse and standardization of ITSs along with automated instructional techniques and effectiveness evaluation capabilities for adaptive tutoring tools and methods.