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2020-04-01

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Equilibrium and Non-Equilibrium Statistical Thermodynamics Springer

This compilation probably looks like one of the craziest things a human being could spend his or her time on. Yet nobody would wonder at someone taking a short walk every day - after twenty five years that person would have covered a surprisingly long distance. This is exactly the story behind this list, which appeared first as a few pages within the directory StarGuides (or whatever name it had at that time) and as a distinct sister publication since 1990. The idea behind this dictionary is to offer astronomers and related space scientists practical assistance in decoding the numerous abbreviations, acronyms, contractions and symbols which they might encounter in all aspects of the vast range of their professional activities, including traveling. Perhaps it is a bit paradoxical, but if scientists quickly grasp the meaning of an acronym solely in their own specific discipline, they will probably encounter more difficulties when dealing with adjacent fields. It is for this purpose that this dictionary might be most often used. Scientists might also refer to this compilation in order to avoid identifying a project by an acronym which already has too many meanings or confused definitions.

16th International Conference, ICOST 2018, Singapore, Singapore, July 10-12, 2018, Proceedings Springer
Mathematics for Physics A Guided Tour for Graduate Students Cambridge University Press

Extreme Ocean Waves Springer Science & Business Media

The Wiley Classics Library consists of selected books that have become recognized classics in their respective fields. With these new unabridged and inexpensive editions, Wiley hopes to extend the life of these important works by making them available to future generations of mathematicians and scientists. Currently available in the Series: T. W. Anderson The Statistical Analysis of Time Series T. S. Arthanari & Yadolah Dodge Mathematical

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Economics of Advanced Manufacturing Systems Copperhill Media

Prolonged life expectancy along with the increasing complexity of medicine and health services raises health costs worldwide dramatically. Whilst the smart health concept has much potential to support the concept of the emerging P4-medicine (preventive, participatory, predictive, and personalized), such high-tech medicine produces large amounts of high-dimensional, weakly-structured data sets and massive amounts of unstructured information. All these technological approaches along with "big data" are

turning the medical sciences into a data-intensive science. To keep pace with the growing amounts of complex data, smart hospital approaches are a commandment of the future, necessitating context aware computing along with advanced interaction paradigms in new physical-digital ecosystems. The very successful synergistic combination of methodologies and approaches from Human-Computer Interaction (HCI) and Knowledge Discovery and Data Mining (KDD) offers ideal conditions for the vision to support human intelligence with machine learning. The papers selected for this volume focus on hot topics in smart health; they discuss open problems and future challenges in order to provide a research agenda to stimulate further research and progress.

12th International Conference, ICOST 2014, Denver, CO, USA, June 25-27, 2014, Revised Papers Routledge

With about 200,000 entries, StarBriefs Plus represents the most comprehensive and accurately validated collection of abbreviations, acronyms, contractions and symbols within astronomy, related space sciences and other related fields. As such, this invaluable reference source (and its companion volume, StarGuides Plus) should be on the reference shelf of every library, organization or individual with any interest in these areas. Besides astronomy and associated space sciences, related fields such as aeronautics, aeronomy, astronautics, atmospheric sciences, chemistry, communications, computer sciences, data processing, education, electronics, engineering, energetics, environment, geodesy, geophysics, information handling, management, mathematics, meteorology, optics, physics, remote sensing, and so on, are also covered when justified. Terms in common use and/or of general interest have also been included where appropriate.

Distributions in the Physical and Engineering Sciences, Volume 2

Springer Science & Business Media
Financial Analytics with R sharpens readers' skills in time-series, forecasting, portfolio selection, covariance clustering, prediction, and derivative securities.

A Dictionary of Abbreviations, Acronyms and Symbols in Astronomy

and Related Space Sciences Simon and Schuster

This revised and updated second edition details the vast progress that has been achieved in the understanding of the physical mechanisms of rogue wave phenomenon in recent years. The selected articles address such issues as the formation of rogue waves due to modulational instability of nonlinear wave field, physical and statistical properties of extreme ocean wave generation in deep water as well as in shallow water, various models of nonlinear water waves, special analysis of nonlinear resonances between water waves and the relation between in situ observations, experimental data and rogue wave theories. In addition, recent results on tsunami waves due to subaerial landslides are presented. This book is written for specialists in the fields of fluid mechanics, applied mathematics, nonlinear physics, physical oceanography and geophysics, and for students learning these subjects.

The Art of Common Talk Springer Science & Business Media

Haskell in Depth unlocks a new level of skill with this challenging language. Going beyond the basics of syntax and structure, this book opens up critical topics like advanced types, concurrency, and data processing. Summary Turn the corner from "Haskell student" to "Haskell developer." Haskell in Depth explores the important language features and programming skills you'll need to build production-quality software using Haskell. And along the way, you'll pick up some interesting insights into why Haskell looks and works the way it does. Get ready to go deep! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Software for high-precision tasks like financial transactions, defense systems, and scientific research must be absolutely, provably correct. As a purely functional programming language, Haskell enforces a mathematically rigorous approach that can lead to concise, efficient, and bug-free code. To write such code you'll need deep understanding. You can get it from this book! About the book Haskell in Depth unlocks a new level of skill with this challenging language. Going beyond the basics of syntax and structure, this book opens up critical topics like advanced types, concurrency, and data processing. You'll discover key parts of the Haskell ecosystem and master core design patterns that will transform how you write software. What's inside Building applications, web services, and networking apps Using sophisticated libraries like lens,

singletons, and servant Organizing projects with Cabal and Stack Error-handling and testing Pure parallelism for multicore processors About the reader For developers familiar with Haskell basics. About the author Vitaly Bragilevsky has been teaching Haskell and functional programming since 2008. He is a member of the GHC Steering Committee. Table of Contents PART 1 CORE HASKELL 1 Functions and types 2 Type classes 3 Developing an application: Stock quotes PART 2 INTRODUCTION TO APPLICATION DESIGN 4 Haskell development with modules, packages, and projects 5 Monads as practical functionality providers 6 Structuring programs with monad transformers PART 3 QUALITY ASSURANCE 7 Error handling and logging 8 Writing tests 9 Haskell data and code at run time 10 Benchmarking and profiling PART 4 ADVANCED HASKELL 11 Type system advances 12 Metaprogramming in Haskell 13 More about types PART 5 HASKELL TOOLKIT 14 Data-processing pipelines 15 Working with relational databases 16 Concurrency

15th International Conference, ICCHP 2016, Linz, Austria, July 13-15, 2016, Proceedings, Part I Springer

Language and Creativity has become established as a pivotal text for courses in English Language, Linguistics and Literacy. Creativity in language has conventionally been regarded as the preserve of institutionalised discourses such as literature and advertising, and individual gifted minds. In this ground-breaking book, bestselling author Ronald Carter explores the idea that creativity, far from being simply a property of exceptional people, is an exceptional property of all people. Drawing on a range of real examples of everyday conversations and speech, from flatmates in a student house and families on holiday to psychotherapy sessions and chat-lines, the book argues that creativity is an all-pervasive feature of everyday language. Using close analysis of naturally occurring language, taken from a unique 5 million word corpus, *Language and Creativity* reveals that speakers commonly make meanings in a variety of creative ways, in a wide range of social contexts and for a diverse set of reasons. This Routledge Linguistics Classic is here reissued with a new preface from the author, covering a range of key topics from e-language and internet discourse to English language teaching and world Englishes. *Language and Creativity* continues to build on the previous theories of creativity, offering a radical contribution to linguistic, literary and cultural theory. A must for anyone interested in the

creativity of our everyday speech.

[10th International and Interdisciplinary Conference, CONTEXT 2017, Paris, France, June 20-23, 2017, Proceedings](#)

Mathematics for Physics A Guided Tour for Graduate Students

An engagingly-written account of mathematical tools and ideas, this book provides a graduate-level introduction to the mathematics used in research in physics. The first half of the book focuses on the traditional mathematical methods of physics – differential and integral equations, Fourier series and the calculus of variations. The second half contains an introduction to more advanced subjects, including differential geometry, topology and complex variables. The authors' exposition avoids excess rigor whilst explaining subtle but important points often glossed over in more elementary texts. The topics are illustrated at every stage by carefully chosen examples, exercises and problems drawn from realistic physics settings. These make it useful both as a textbook in advanced courses and for self-study. Password-protected solutions to the exercises are available to instructors at www.cambridge.org/9780521854030.

19 Urban Questions Springer

This book describes computational methods used in theoretical physics with emphasis on condensed matter applications.

[Perturbation Methods](#) Addison Wesley Publishing Company

This book constitutes the proceedings of the 16th International Conference on Smart Homes and Health Telematics, ICOST 2018, held in Singapore, Singapore, in July 2018. The theme of this year volume is "Designing a better Future: Urban Assisted Living", focusing on quality of life of dependent people not only in their homes, but also in outdoor living environment to improve mobility and social interaction in the city. The 21 regular papers and 11 short papers included in this volume focus on research in the design, development, deployment and evaluation of smart urban environments, assistive technologies, chronic disease management, coaching and health telematics systems.

Smart Homes and Health Telematics, Designing a Better Future: Urban Assisted Living Springer

Professionals and students in any geology-related field will find this an essential reference. It clearly and systematically explains underground engineering geology principles, methods, theories and case studies. The authors lay out engineering problems in underground rock engineering

and how to study and solve them. The book specially emphasizes mechanical and hydraulic couplings in rock engineering for wellbore stability, mining near aquifers and other underground structures where inflow is a problem.

Introductory Quantum Mechanics World Scientific

"Chemistry from First Principles" examines the appearance of matter in its most primitive form. It features the empirical rules of chemical affinity that regulate the synthesis and properties of molecular matter, analyzes the compatibility of the theories of chemistry with the quantum and relativity theories of physics, formulates a consistent theory based on clear physical pictures and manageable mathematics to account for chemical concepts such as the structure and stability of atoms and molecules. This text also explains the self-similarity between space-time, nuclear structure, covalent assembly, biological growth, planetary systems, and galactic conformation.

Intelligent Systems Technologies and Applications John Wiley & Sons

This book presents a series of significant methods and examples for the design of sustainable intelligent facades in a variety of contexts. Emphasis is placed on how intelligence has been applied for successful energy-saving efforts in the planning of building envelopes. Readers will find essential information on the core principles involved in designing, calculating and organizing intelligent facades according to the need for a new or retrofitted building. Not only are different materials and technologies considered, but also efficient ways to combine them according to user needs and other project-specific constraints. Illustrations, tables and graphs accompany the text, clarifying the concepts discussed. Architects, facade consultants and all those interested in and energy-saving measures and improved indoor comfort will find this book useful not only as an introduction to the subject but also as a guide to achieving more responsive building methods.

Introduction to Perturbation Methods Springer

This introductory graduate text is based on a graduate course the author has taught repeatedly over the last ten years to students in applied mathematics, engineering sciences, and physics. Each chapter begins with an introductory development involving ordinary differential equations, and goes on to cover such traditional topics as boundary layers and multiple scales. However, it also contains material arising from current research interest, including

homogenisation, slender body theory, symbolic computing, and discrete equations. Many of the excellent exercises are derived from problems of up-to-date research and are drawn from a wide range of application areas.

Modern Physics Springer Science & Business Media

Enterprise Networks and Logistics for Agile Manufacturing presents a focused collection of quality chapters on state-of-the-art research efforts in the areas of enterprise networks and logistics, as well as their practical applications towards agile manufacturing. With the increasing decentralisation of manufacturing systems and outsourcing of processes, more robust and practical approaches and systems are needed to support agile manufacturing operations. Enterprise Networks and Logistics for Agile Manufacturing consists of two major sections: the first presents a broad-based review of the key areas of research in enterprise networks and logistics; the second focuses on an in-depth treatment of a particular methodology or system relevant to the book title. Examples include: • sustainable green supply chain; • value creation and supplier selection; • extended enterprise network management; • reverse logistics; and • innovative supply chain systems. The authors take into account the need to pose intellectual challenges while retaining a balanced approach in terms of scope versus depth and theory versus applications. Enterprise Networks and Logistics for Agile Manufacturing can be beneficial to academic researchers, practicing engineers and managers, and graduate students with an interest in any manufacturing sectors. It can enable them to better understand the present state and future trends of research in this important area, in order to position themselves strategically for future challenges as we enter the era of agile and distributed manufacturing.

Processes, Properties, and Applications Lulu.com

This book constitutes the thoroughly refereed post-conference proceedings of the third International Symposium on Intelligent Systems Technologies and Applications (ISTA'17), September 13-16, 2017, Manipal, Karnataka, India. All submissions were evaluated on the basis of their significance, novelty, and technical quality. This proceedings contains 34 papers selected for presentation at the Symposium.

Smart Grids - Fundamentals and Technologies in Electricity Networks Springer Science & Business Media

The 1980s have witnessed a tremendous

growth in the field of computer integrated manufacturing systems. The other major areas of development have been computer-aided design, computer-aided manufacturing, industrial robotics, automated assembly, cellular and modular material handling, computer networking and office automation to name just a few. These new technologies are generally capital intensive and do not conform to traditional cost structures. The net result is a tremendous change in the way costs should be estimated and economic analyses performed. The majority of existing engineering economy texts still profess application of traditional analysis methods. But, as was mentioned above, it is clear that the basic trend in manufacturing industries is itself changing. So it is quite obvious that the practice of traditional economic analysis methods should change too. This book is an attempt to address the various issues associated with non-traditional methods for evaluation of advanced computer-integrated technologies. This volume consists of twenty refereed articles which are grouped into five parts. Part one, Economic Justification Methods, consists of six articles. In the first paper, Soni et al. present a new classification for economic justification methods for advanced automated manufacturing systems. In the second, Henghold and LeClair look at strengths and weaknesses of expert systems in general and more specifically, an application aimed at investment justification in advanced technology. The third paper, by Carrasco and Lee, proposes an enhanced economic methodology to improve the needs analysis, conceptual design and detailed design activities associated with technology modernization.

Engineering Geology for Underground Rocks Courier Dover Publications

While the history of musical instruments is nearly as old as civilisation itself, the science of acoustics is quite recent. By understanding the physical basis of how instruments are used to make music, one hopes ultimately to be able to give physical criteria to distinguish a fine instrument from a mediocre one. At that point science may be able to come to the aid of art in improving the design and performance of musical instruments. As yet, many of the subtleties in musical sounds of which instrument makers and musicians are aware remain beyond the reach of modern acoustic measurements. This book describes the results of such acoustical investigations - fascinating intellectual and practical exercises. Addressed to readers with a reasonable

grasp of physics who are not put off by a little mathematics, this book discusses most of the traditional instruments

currently in use in Western music. A guide for all who have an interest in music and

how it is produced, as well as serving as a comprehensive reference for those undertaking research in the field.