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Covers the whole spectrum of finite-state methods, from theory to practical applications.

This proceedings volume consists of refereed papers presented at the Second International Conference on Computing, Mathematics and Statistics (iCMS 2015) held in Langkawi, Malaysia in November 2015. Divided into three sections - Computer Science, Mathematics and Statistics - the book includes both quantitative and qualitative research that confronts current societal issues. Within the main sections, the book also covers education based research works and the applications of computer and mathematical sciences in social science, business, industries and the life and hard sciences. Drawing on the theme Bridging Research Endeavor on Computing, Mathematics and Statistics, each of the conference papers are carefully selected and edited to cater to readers from diverse applied and social sciences backgrounds. The book allows for the contemplation and reflection on the possibility of the knowledge growth and knowledge sharing in building a better world for future generations.

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CVS, the Concurrent Versions System, is the popular source-code management tool that frees developers from the chaos that too often ensues when multiple users work on the same file. An open source technology that is available on most computer platforms, including Windows(r) and Mac OS(r) X, CVS is widely used to manage program code, web site content, and to track changes made to system configuration files. Multiple users can check out files from a directory tree, make changes, and then commit those changes back into the directory. If two developers modify the same file, CVS enables both sets of changes to be merged together into one final file. Although CVS is a lifesaver in many development scenarios, it suffers from poor documentation. But with "Essential CVS," developers can have it all: the order that CVS brings and the comprehensive documentation developers need."Essential CVS" is a complete and easy-to-follow reference that helps programmers and system administrators apply order to the task of managing large quantities of documents. The book covers basic concepts and usage of CVS, and features a comprehensive reference for CVS commands--including a handy Command Reference Card for quick, on-the-job checks. The book also includes advanced information on all aspects of CVS that involve automation, logging, branching and merging, and "watches." Readers will find in-depth coverage of the following: Installing CVS and building your first repositoryBasic use of CVS, including importing projects, checking out projects, committing changes, and updating projectsTagging, branching and mergingWorking with multiple usersClients, operating systems, and IDEsRepository management and managing remote repositoriesProject administration, including bug tracking systems, enforcing log messages, history and annotation, and more.TroubleshootingVersion control is essential to maintaining order in any project, large or small. Any CVS user, from beginners to team leaders and system administrators, will find this practical guide to CVS indispensable in getting the most from this valuable tool.

Mathematical techniques for trading and risk management. Managing Energy Risk closes the gap between modern techniques from financial mathematics and the practical implementation for trading and risk management. It takes a multi-commodity approach that covers the mutual influences of the markets for fuels, emission certificates, and power. It includes many practical examples and covers methods from financial mathematics as well as economics and energy-related models.

Managing Energy RiskAn Integrated View on Power and Other Energy MarketsJohn Wiley & Sons

This book offers thorough analyses of two typologically different languages, English and Slovak, from the viewpoint of two different approaches to language: namely, structuralism, as introduced by Ferdinand de Saussure in the first half of the 20th century, and generativism, based on the ideas of Noam Chomsky's generative grammar presented in the 1960s. Considering structuralist and generative phonology, the most important unit of phonological analysis for both is the syllable. Most of the theories within generative phonology provide a syllable model or rules for syllabification that are considered language-universal, but syllabification is not exhaustive since consonants that are part of a word but somehow violate the given syllable model or rules remain unsyllabified. On the other hand, in structuralist phonology, syllable theories fulfil the condition of universality such that all languages have syllables, and their syllabification is always exhaustive; that is, all segments in a word are syllabified. In this book, a generative understanding of the syllable is represented by the CVX syllable theory and the Syllable Structure Algorithm from Lexical Phonology, and the synthetic phonological theory was chosen to typify structuralism. As such, the book adds to current research bridging the gap between generative and structuralist linguistics.

Advances in Experimental Social Psychology

This book deals with the basic principles and techniques of nonequilibrium statistical mechanics. The importance of this subject is growing rapidly in view of the advances being made, both experimentally and theoretically, in statistical physics, chemical physics, biological physics, complex systems and several other areas. The presentation of topics is quite self-contained, and the choice of topics enables the student to form a coherent picture of the subject. The approach is unique in that classical mechanical formulation takes center stage. The book is of particular interest to advanced undergraduate and graduate students in engineering departments.

As an open operating system, Unix can be improved on by anyone and everyone: individuals, companies, universities, and more. As a result, the very nature of Unix has been altered over the years by numerous extensions formulated in an assortment of versions. Today, Unix encompasses everything from Sun's Solaris to Apple's Mac OS X and more varieties of Linux than you can easily name. The latest edition of this bestselling reference brings Unix into the 21st century. It's

been reworked to keep current with the broader state of Unix in today's world and highlight the strengths of this operating system in all its various flavors. Detailing all Unix commands and options, the informative guide provides generous descriptions and examples that put those commands in context. Here are some of the new features you'll find in Unix in a Nutshell, Fourth Edition Solaris 10, the latest version of the SVR4-based operating system, GNU/Linux, and Mac OS X Bash shell (along with the 1988 and 1993 versions of ksh) tsch shell (instead of the original Berkeley csh) Package management programs, used for program installation on popular GNU/Linux systems, Solaris and Mac OS X GNU Emacs Version 21 Introduction to source code management systems Concurrent versions system Subversion version control system GDB debugger As Unix has progressed, certain commands that were once critical have fallen into disuse. To that end, the book has also dropped material that is no longer relevant, keeping it taut and current. If you're a Unix user or programmer, you'll recognize the value of this complete, up-to-date Unix reference. With chapter overviews, specific examples, and detailed command.

The book deals with the development of continual models of turbulent natural media. Such models serve as a ground for the statement and numerical evaluation of the key problems of the structure and evolution of the numerous astrophysical and geophysical objects. The processes of ordering (self-organization) in an originally chaotic turbulent medium are addressed and treated in detail with the use of irreversible thermodynamics and stochastic dynamics approaches which underlie the respective models. Different examples of ordering set up in the natural environment and outer space are brought and thoroughly discussed, the main focus being given to the protoplanetary discs formation and evolution.

This book discusses a variety of problems which are usually treated in a second course on the theory of functions of one complex variable, the level being gauged for graduate students. It treats several topics in geometric function theory as well as potential theory in the plane, covering in particular: conformal equivalence for simply connected regions, conformal equivalence for finitely connected regions, analytic covering maps, de Branges' proof of the Bieberbach conjecture, harmonic functions, Hardy spaces on the disk, potential theory in the plane. A knowledge of integration theory and functional analysis is assumed.

This volume is a jubilee issue and contains some specially designed computer generated holograms for this occasion, together with a description of how to obtain the holographic effect.

Collected Papers from the Seventh International Symposium on Biochemical Aspects of Kidney Function, Bratislava, 9-12 April 1984

A comprehensive and unified introduction to describing and understanding complex interacting systems.

The field of cochlear mechanics has received an increasing interest over the last few decades. In the majority of these studies the researchers use linear systems analysis or linear approximations of the nonlinear (NL) systems. Even though it has been clear that the intact cochlea operates nonlinearly, lack of tools for proper nonlinear analysis, and widely available tools for linear analysis still lead to inefficient

and possibly incorrect interpretation of the biophysics of the cochlea. An example is the presumption that a change in cochlear stiffness at hair cell level must account for the observed change in tuning (or frequency mapping) due to prestin application. Hypotheses like this need to be addressed in a tutorial that is lucid enough to analyze and explain basic differences. Cochlear Mechanics presents a useful and mathematically justified/justifiable approach in the main part of the text, an approach that will be elucidated with clear examples. The book will be useful to scientists in auditory neuroscience, as well as graduate students in biophysics/biomedical engineering.

ESTIMATED LIFE SPAN: 12 MINUTES It started out as a simple Matrix run, but now five deckers are trapped inside a nightmarish virtual landscape where jacking out is an impossibility--and what waits has all the hallmarks of the afterlife: tunnels of brilliant light, greetings from long-dead friends and family...and the terrifying sense of being juggled between Heaven and Hell. But in this computer-generated netherworld, there is only one thing that can be trusted. And it isn't the senses... ...THE COUNTDOWN BEGINS It's the uncommon experience the deckers have in common: a near brush with death. It has brought them together in this hell-raising realm and under the influence of a twisted intelligence with diabolical plans for the unwary travelers in grid-time. Having their minds and souls extinguished before the Matrix-scape crash is only the beginning of the puzzle. Discovering why will be the end. A dead end...

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