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Cosmos & Culture

Underwater Digital Video Made Easy

A solid introduction to basic continuum mechanics, emphasizing variational formulations and numeric computation. The book offers a complete discussion of numerical method techniques used in the study of structural mechanics.

Hardware Hacker

This volume provides new methodological developments in data analysis and classification. Many of the most typical topics and new interesting emerging subjects typical for classification and data analysis are treated in the volume. Papers cover both teoretical and empirical aspects. Papers cover both teoretical and empirical aspects and are grouped in the following nine parts: Cluster analysis; Multidimensional scaling; Multivariate analysis and applications; Classification and classification trees; Statistical models; Latent variables; Knowledge extraction from temporal data; Statistical methods for financial and economics data; Missing values.

The Sports Car

An introduction to the Tibetan Buddhist practice of lojong features a collection of classical "slogans" designed to help promote clarity, intelligence, compassion, and other virtues, in a guide that demonstrates how to overcome such challenges as fear and self-centeredness. Original.

Do-it-yourself Projects for Guitarists

Mac 911

This book is essential for audio power amplifier designers and engineers for one simple reasonit enables you as a professional to develop reliable, high-performance circuits. The Author Douglas Self covers the major issues of distortion and linearity, power supplies, overload, DC-protection and reactive loading. He also tackles unusual forms of compensation and distortion produced by capacitors and fuses. This completely updated fifth edition includes four NEW chapters including one on The XD Principle, invented by the author, and used by Cambridge Audio. Crosstalk, power amplifier input systems, and microcontrollers in amplifiers are also now discussed in this fifth edition, making this book a must-have for audio power amplifier professionals and audiophiles.

Dictionary of Hard Words

Featuring extensive calculations and examples, this reference discusses theoretical and practical aspects of short-circuit currents in ac and dc systems, load flow, and harmonic analyses to provide a sound knowledge base for modern computer-based studies that can be utilized in real-world applications. Presenting more than 2300 figures, tables, and equations, the author explores matrix methods for network solutions and includes load flow and optimization techniques. He discusses ac and dc short-circuit systems calculations in accordance with standards set by the American National Standards

Institute (ANSI) and the International Electrotechnical Commission (IEC) .

Livestock Breeds of China

In the human quest for scientific knowledge, empirical evidence is collected by visual perception. Tracking with computer vision takes on the important role to reveal complex patterns of motion that exist in the world we live in. Multi-object tracking algorithms provide new information on how groups and individual group members move through three-dimensional space. They enable us to study in depth the relationships between individuals in moving groups. These may be interactions of pedestrians on a crowded sidewalk, living cells under a microscope, or bats emerging in large numbers from a cave. Being able to track pedestrians is important for urban planning; analysis of cell interactions supports research on biomaterial design; and the study of bat and bird flight can guide the engineering of aircraft. We were inspired by this multitude of applications to consider the crucial component needed to advance a single-object tracking system to a multi-object tracking system—data association. Data association in the most general sense is the process of matching information about newly observed objects with information that was previously observed about them. This information may be about their identities, positions, or trajectories. Algorithms for data association search for matches that optimize certain match criteria and are subject to physical conditions. They can therefore be formulated as solving a

"constrained optimization problem"—the problem of optimizing an objective function of some variables in the presence of constraints on these variables. As such, data association methods have a strong mathematical grounding and are valuable general tools for computer vision researchers. This book serves as a tutorial on data association methods, intended for both students and experts in computer vision. We describe the basic research problems, review the current state of the art, and present some recently developed approaches. The book covers multi-object tracking in two and three dimensions. We consider two imaging scenarios involving either single cameras or multiple cameras with overlapping fields of view, and requiring across-time and across-view data association methods. In addition to methods that match new measurements to already established tracks, we describe methods that match trajectory segments, also called tracklets. The book presents a principled application of data association to solve two interesting tasks: first, analyzing the movements of groups of free-flying animals and second, reconstructing the movements of groups of pedestrians. We conclude by discussing exciting directions for future research.

Sammlung

Described as "the most comprehensive book on digital audio to date", it is widely acclaimed as an industry "bible". Covering the very latest developments in digital audio technology, it provides an thorough introduction to the theory as well as

acting as an authoritative and comprehensive professional reference source. Everything you need is here from the fundamental principles to the latest applications, written in an award-winning style with clear explanations from first principles. New material covered includes internet audio, PC audio technology, DVD, MPEG audio compression, digital audio broadcasting and audio networks. Whether you are in the field of audio engineering, sound recording, music technology, broadcasting and communications media or audio design and installation, this book has it all. Written by a leading international audio specialist, who conducts professional seminars and workshops around the world, the book has been road tested for many years by professional seminar attendees and students to ensure their needs are taken into account, and all the right information is covered. This new edition now includes: Internet audio PC Audio technology DVD MPEG Audio compression Digital Audio Broadcasting Audio networks Digital audio professionals will find everything they need here, from the fundamental principles to the latest applications, written in an award-winning style with clear explanations from first principles. John Watkinson is an international consultant in audio, video and data recording. He is a Fellow of the AES, a member of the British Computer Society and a chartered information systems practitioner. He presents lectures, seminars, conference papers and training courses worldwide. He is the author of many other Focal Press books, including: the Kraszna-Krausz award winning MPEG-2; The Art of Digital Audio; An Introduction to Digital Video; The Art of Sound Reproduction; An Introduction to Digital Audio; TV

Fundamentals and Audio for Television. He is also co-author, with Francis Rumsey, of The Digital Interface Handbook, and contributor to the Loudspeaker and Headphone Handbook, 3rd edition.

Data Analysis and Classification

Network Security Assessment

Provides easy-to-understand instructions for building a high-quality speaker system

The Practice of Lojong

Features information available only to auction and dealer networks &break;&break;Responds to intense market demands, driven by collectors capitalizing on recent auctions involving distinguished collections &break;&break;Diverse audience: experienced collectors, history buffs, educators, and museum curators &break;&break;A recent surge in this paper money arena provides a ready-made audience for a new edition of this one-of-a-kind book. Top-dollar auctions are putting more Colonial American paper money into collectors' hands, creating a wealth of collectors seeking a new edition of the definitive guide - The Early Paper Money of America. This is the collector's best choice, because it: &break;&break;Offers 1,100+ detailed, high quality illustrations investors, history enthusiasts, re-enactment groups and educators can turn to identify issues &break;&break;Represents the most

comprehensive guide to Colonial American paper money and early states issues &break;&break;Provides information not readily available to general paper money collectors &break;&break;This new edition continues a tradition of reliability collectors of early American paper money respect.

Training in Compassion

California Mexican-Spanish Cookbook

"Featuring the photographs of Chris Hadfield."

Avionics Troubleshooting and Repair

Introduces the Beginner to Machine Code. Includes Utilities, An Assembler & a Disassembler

Practical Electronic Musical Effects Units

Stravinsky

Written specifically with service technicians and engineers in mind, this book is designed as a bench-side companion and guide to the principles involved in repairing and adjusting CD players. Engineers will find this a helpful companion to the various service manuals. The text takes a problem solving approach with numerous examples, circuit diagrams and line drawings. Engineers who need to achieve a better

understanding of CD technology will find this book an essential tool for fault diagnosis, adjustment and repair. This book not only covers the mechanical design but also the integrated circuits within a CD player. It is written for immediate application and is well illustrated, so it should become a welcome addition to the rack of tools available to the service engineer. Ken Clements has extensive experience of the service industry both as a service manager and later in technical training with Sony and Pioneer. It is his hands-on knowledge that makes the book so valuable, not only as a wide-ranging reference but also as a benchtop manual to be kept within reach at all times when working with CD players.

Audio Power Amplifier Design

Service engineers and technicians have come to regard this book as essential to their work. As a bench-side companion and guide it has no equal. Its purpose is to ease and speed up the processes of fault diagnosis, repair and testing of all classes of home audio equipment: receivers, amplifiers, recorders and playback machines. The mechanics and electronics of domestic audio are examined by Nick Beer in a down-to-earth and practical way, concentrating on what goes wrong, how to track down problems, and how to solve them. A symptom index and comprehensive manufacturer and supplier guide allow quick access to specific advice and suggestions. The third edition is bang up to date with the latest technology-DVD, CD Recordable,PC audio systems. There is also new material on PA equipment. Nick Beer is a Service

Manager for an independent dealer working with TV, VCR, Satellite, audio and hi-fi equipment from the major quality manufacturers. He also has extensive experience of field service and sales/installation work. His articles appear regularly in Electrotechnology, and Satellite Trader, and he lectures in Electronics and Media for numerous colleges and companies. Essential bench companion for all service engineers. New technology such as DVD and expanded material on MiniDisk will ensure another successful launch to this new edition

Construction Manual of Prefabricated Timber House

FIX THE MOST COMMON PROBLEMS IN AVIONICS Keep planes flying smoothly and safely with the best guide ever written on caring for avionic components. Avionics Troubleshooting and Repair is packed with assembly, installation, and troubleshooting techniques for use by both pilots and technicians. Written by avionics specialist Edward R. Maher, this crystal-clear guide brings you: *Coverage of audio noiseproofing, communications systems, GPS, sheet metal, bonding and adhesives, Stormscope, ELT's, lighting systems, instrument calibration, gyros, and more *Clear answers on what pilots can do (and when you need a certified mechanic) *Problem-identification, diagnostic, and repair procedures you'll find nowhere else *Related FAA rules and regulations, plus industry standards *Comprehensive information on equipment and needed tools

Autocar

The Audiophile Loudspeaker

Bertha Haffner-Ginger's 1914 ""California Mexican-Spanish Cookbook"" is a delightful collection of Mexican recipes. As she notes in her Introduction, ""Spanish dishes as they are known in California are really Mexican Indian dishes. Bread made of corn, sauces of chile peppers, jerked beef, tortillas, enchiladas, etc., are unknown in Spain as native foods; though the majority of Spanish people in California are as devoted to peppery dishes as the Mexicans themselves, and as the Mexicans speak Spanish, the foods are commonly called Spanish dishes."" The dishes represented are Mexican dishes as they have come to be known across America and they will be a welcome addition to any kitchen. The volume contains the first known, English-language recipe for tacos.

Power System Analysis

This book is a collection of essays centred around the subject of mathematical mechanization. It tries to deal with mathematics in a constructive and algorithmic manner so that reasoning becomes mechanical, automated and less laborious. The book is divided into three parts. Part I concerns historical developments of mathematics mechanization, especially in ancient China. Part II describes the underlying principles of polynomial equation-solving,

with polynomial coefficients in fields restricted to the case of characteristic 0. Based on the general principle, some methods of solving such arbitrary polynomial systems may be found. This part also goes back to classical Chinese mathematics as well as treating modern works in this field. Finally, Part III contains applications and examples. Audience: This volume will be of interest to research and applied mathematicians, computer scientists and historians in mathematics.

Mathematics Mechanization

This easy-to-use guide covers troubleshooting tips and tricks for Mac hardware and software, written by the well-known Macworld columnist and Macintosh guru Chris Breen. The book contains troubleshooting tips and techniques for both Mac OS 9 and OS X, and additional projects for making a Macintosh more productive-sharing files, making Mac OS X work more like Mac OS 9, and more.

Art of Digital Audio

This important book presents all the major works of Professor Wen-Tsun Wu, a widely respected Chinese mathematician who has made great contributions in the fields of topology and computer mathematics throughout his research career.The book covers Wu's papers from 1948 to 2005 and provides a comprehensive overview of his major achievements in algebraic topology, computer mathematics, and history of ancient Chinese mathematics. In algebraic

topology, he discovered Wu classes and Wu formulas for Stiefel-Whitney classes of sphere bundles or differential manifolds, established an imbedding theory with an application to the layout problem of integrated circuits, and introduced the I*-functors which turned the ?rational homotopy theory? created by D Sullivan into algorithmic form. In computer mathematics, he discovered Wu's method of mechanical theorem proving by means of computers, which has been applied to prove and even discover on the computers hundreds of non-trivial theorems in various kinds of elementary and differential geometries. He also discovered a new effective method of polynomial equations solving, which has been used to solve problems raised from the fields of robotics and mechanisms, CAGD, computer vision, theoretic physics, celestial mechanics, and chemical equilibrium computation.

Bringing Down this House

Maintaining the reliable and efficient generation, transmission and distribution of electrical power is of the utmost importance in a world where electricity is the inevitable means of energy acquisition, transportation, and utilization, and the principle mode of communicating media. Our modern society is entirely dependent on electricity, so problems involving the continuous delivery of power can lead to the disruption and breakdown of vital economic and social infrastructures. This book brings together comprehensive technical information on power system engineering, covering the fundamental theory

of power systems and their components, and the related analytical approaches. Key features: Presents detailed theoretical explanations of simple power systems as an accessible basis for understanding the larger, more complex power systems. Examines widely the theory, practices and implementation of several power sub-systems such as generating plants, over-head transmission lines and power cable lines, sub-stations, including over-voltage protection, insulation coordination as well as power systems control and protection. Discusses steady-state and transient phenomena from basic power-frequency range to lightning- and switching-surge ranges, including system faults, wave-form distortion and lower-order harmonic resonance. Explains the dynamics of generators and power systems through essential mathematical equations, with many numerical examples. Analyses the historical progression of power system engineering, in particular the descriptive methods of electrical circuits for power systems. Written by an author with a wealth of experience in the field, both in industry and academia, the Handbook of Power System Engineering provides a single reference work for practicing engineers, researchers and those working in industry that want to gain knowledge of all aspects of power systems. It is also valuable for advanced students taking courses or modules in power system engineering.

Machine Language for Beginners

Fluid Mechanics

Lojong is the Tibetan Buddhist practice that involves working with short phrases (called "slogans") as a way of generating bodhichitta, the heart and mind of enlightened compassion. Though the practice is more than a millennium old, it has become popular in the West only in the last twenty years or so—and it has become very popular indeed, because it's a practice that one can fit very well into an ordinary life, and because it works.Through the influence of Pema Chödrön, who was one of the first American Buddhist teachers to teach it extensively, the practice has moved out of its Buddhist context to affect the lives of non-Buddhists too. It's in this spirit that Norman Fischer offers his commentary on the lojong slogans. He applies Zen wisdom to them, showing how well they fit in that related tradition, but he also sets the slogans in the context of resonant practices throughout the spiritual traditions. He shows lojong to be a wonderful method for everyone, including those who aren't otherwise interested in Buddhism, who don't have the time or inclination to meditate, or who'd just like to morph into the kind of person who's focused rather than scattered, generous rather than stingy, and kind rather than thoughtless.

Fundamentals of Structural Mechanics

Shows how to build a preamp, ring modulator, phase shifter, and other electronic musical devices and provides a basic introduction to working with electronic components

Understanding Calculator Math

For many centuries Indian and Tibetan Buddhists have employed this collection of pithy, penetrating Dharma slogans to develop compassion, equanimity, lovingkindness, and joy for others. Known as the lojong—or mind-training—teachings, these slogans have been the subject of deep study, contemplation, and commentary by many great masters. In this volume, Traleg Kyabgon offers a fresh translation of the slogans as well as in-depth new commentary of each. After living among and teaching Westerners for over twenty years, his approach is uniquely insightful into the ways that the slogans could be misunderstood or misinterpreted within our culture. Here, he presents a refreshing and clarifying view, which seeks to correct points of confusion.

Handbook of Power System Engineering

Audio and Hi-fi Handbook

Morgan Jones' Valve Amplifiers has been widely recognised as the most complete guide to valve amplifier design, modification, analysis, construction and maintenance written for over 30 years. As such it is unique in presenting the essentials of 'hollow-state' electronics and valve amp design for engineers and enthusiasts in the familiar context of current best practice in electronic design, using only currently available components. The author's straightforward approach, using as little maths as possible, and lots of

design knowhow, makes this book ideal for those with a limited knowledge of the field as well as being the standard reference text for experts in valve audio and a wider audience of audio engineers facing design challenges involving valves. Design principles and construction techniques are provided so readers can devise and build from scratch designs that actually work. Morgan Jones takes the reader through each step in the process of design, starting with a brief review of electronic fundamentals relevant to valve amplifiers, simple stages, compound stages, linking stages together, and finally, complete designs. Practical aspects, including safety, are addressed throughout. The third edition includes a new chapter on distortion and many further new and expanded sections throughout the book, including: comparison of bias methods, constant current sinks, upper valve choice, buffering and distortion, shunt regulated push-pull (SRPP) amplifier, use of oscilloscopes and spectrum analysers, valve cooling and heatsinks, US envelope nomenclature and suffixes, heater voltage versus applied current, moving coil transformer source and load terminations. * The practical guide to analysis, modification, design, construction and maintenance of valve amplifiers * The fully up-to-date approach to valve electronics * Essential reading for audio designers and music and electronics enthusiasts alike

Servicing Audio and Hi-fi Equipment

There are hundreds--if not thousands--of techniques used to compromise both Windows and Unix-based

systems. Malicious code and new exploit scripts are released on a daily basis, and each evolution becomes more and more sophisticated. Keeping up with the myriad of systems used by hackers in the wild is a formidable task, and scrambling to patch each potential vulnerability or address each new attack one-by-one is a bit like emptying the Atlantic with paper cup.If you're a network administrator, the pressure is on you to defend your systems from attack. But short of devoting your life to becoming a security expert, what can you do to ensure the safety of your mission critical systems? Where do you start?Using the steps laid out by professional security analysts and consultants to identify and assess risks, Network Security Assessment offers an efficient testing model that an administrator can adopt, refine, and reuse to create proactive defensive strategies to protect their systems from the threats that are out there, as well as those still being developed.This thorough and insightful guide covers offensive technologies by grouping and analyzing them at a higher level--from both an offensive and defensive standpoint--helping administrators design and deploy networks that are immune to offensive exploits, tools, and scripts. Network administrators who need to develop and implement a security assessment program will find everything they're looking for--a proven, expert-tested methodology on which to base their own comprehensive program--in this time-saving new book.

Data Association for Multi-Object Visual Tracking

Electronic Projects for Musicians

1 The Development of the Sports Car.- Motor sport.- The sports car.- The history of the sports car.- The first sports car.- The fabulous years.- Historic sports cars.- The future of the sports car.- 2 The Engine: Combustion.- Cylinder head history.- Combustion chamber research.- Volumetric efficiency.- Knock.- Limiting compression ratio.- Types of combustion chamber.- 3 The Engine: Induction and Exhaust.- The induction system.- The 4-cylinder in-line engine.- The 6-cylinder in-line engine.- The V-8 engine.- Ramming induction pipes.- Ramming pipe theory.- Forward-ram intakes.- Cold-air intakes.

Training the Mind & Cultivating Loving-kindness

Cosmic evolution, the idea that the universe and its constituent parts are constantly evolving, has become widely accepted only in the last 50 years. It is no coincidence that this acceptance parallels the span of the Space Age. Although cosmic evolution was first recognized in the physical universe early in the 20th century, with hints even earlier, the relationships among planets, stars, and galaxies, and the evolution of the universe itself, became much better known through the discoveries by planetary probes and space telescopes in the latter half of the century. It was also during the last 50 years-a century after Darwin proposed that evolution by natural selection applies to life on our own planet-that researchers

from a variety of disciplines began to seriously study the possibilities of extraterrestrial life and "the biological universe." Considering biology from this broader cosmological perspective has expanded biological thinking beyond its sample-of-one straightjacket, incorporating biology into cosmic evolution. Astrobiology is now a robust discipline even though it has yet to find any life beyond Earth. But there is a third component to cosmic evolution beyond the physical and the biological. Even if we only know of culture on one planet so far, cultural evolution has been an important part of cosmic evolution on Earth, and perhaps on many other planets. Moreover, it also dominates the other two forms of evolution in terms of its rapidity. Humans were not much different biologically 10,000 years ago, but one need only look around to see how much we have changed culturally. Yet, unlike the study of biological evolution, which has made great progress since Darwin's Origin of Species, the scientific study of cultural evolution languished after Darwin's death for the better part of a century. Only within the past few decades has significant progress been made, and concerned with advancing their fledging science, cultural evolutionists have yet to expand their thinking beyond their current planetary sample-of-one concerns. But if life and intelligence do exist beyond Earth, it is likely that culture will arise and evolve. In this volume authors with diverse backgrounds in science, history, and anthropology consider culture in the context of the cosmos, including the implications of the cosmos for our own culture.

Network Analysis and Synthesis

Valve Amplifiers

A comprehensive guide to audio electronics. It is designed to help enthusiasts understand and modify their hi-fi equipment. This edition contains new chapters on servicing, and digital developments such as DVD, digital TV, digital radio, Internet audio and MP3 players.

Understanding and Servicing CD Players

While many facets of electronic projects construction have waxed and waned over the years, musical effects units have remained as popular as can be home constructed for much less than the cost of an equivalent ready-made product. Also, some of the more weird and wonderful effects units fort the home constructor have no true commercial equivalents.

The Early Paper Money of America

For freedom to have a meaning, it must come through the sacrifice of the people. It is on this notion that the book narrates the journey of Nigeria and its people from the colonial perspective; it highlights contemporary realities with critical thoughts and gives an in-depth understanding of power politics. The book is a thorough work on Nigeria's historical and political evolution since the inception of its self-rule, with special appraisal on its political leaders. It

provides insight on how Nigeria can be re-shaped by a new definition of power. The author argues persuasively, the road that should be taken by the people of Nigeria, in restoring the meaning of citizenship.

Earth, Spirit of Place

ROMANCE ACTION & ADVENTURE MYSTERY & THRILLER BIOGRAPHIES & HISTORY CHILDREN'S YOUNG ADULT FANTASY HISTORICAL FICTION HORROR LITERARY FICTION NON-FICTION SCIENCE FICTION