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Subject Catalog CRC Press

A practitioner's guide to the basic principles of creating sound effects using easily accessed free software. Designing Sound teaches students and professional sound designers to understand and create sound effects starting from nothing. Its thesis is that any sound can be generated from first principles, guided by analysis and synthesis. The text takes a practitioner's perspective, exploring the basic principles of making ordinary, everyday sounds using an easily accessed free software. Readers use the Pure Data (Pd) language to construct sound objects, which are more flexible and useful than recordings. Sound is considered as a process, rather than as data—an approach sometimes known as "procedural audio." Procedural sound is a living sound effect that can run as computer code and be changed in real time according to unpredictable events. Applications include video games, film, animation, and media in which sound is part of an interactive process.

The book takes a practical, systematic approach to the subject, teaching by example and providing background information that offers a firm theoretical context for its pragmatic stance. [Many of the examples follow a pattern, beginning with a discussion of the nature and physics of a sound, proceeding through the development of models and the implementation of examples, to the final step of producing a Pure Data program for the desired sound. Different synthesis methods are discussed, analyzed, and refined throughout.] After mastering the techniques presented in Designing Sound, students will be able to build their own sound objects for use in interactive applications and other projects. The Microphone Handbook Springer Science & Business Media

In its 114th year, Billboard remains the world's premier weekly music publication and a diverse digital, events, brand, content and data licensing platform. Billboard publishes the most trusted charts and offers unrivaled reporting about the latest music, video, gaming, media, digital and mobile entertainment issues and trends.

Mathematics of the Discrete Fourier Transform (DFT) Elar Publishing Company, Incorporated SHOSTAKOVICH SYMPHONIES AND CONCERTOS: AN OWNER'S MANUAL - UNLOCKING THE MASTERS W/CD

Breastfeeding MIT Press

English 3D was designed to accelerate language development for English learners who have agility with social interactional English while lacking the advanced linguistic knowledge and skills required by complex coursework in school. English 3D propels students to higher language proficiency through a consistent series of lessons derived from research-based principles and classroom-tested practices that maximize students' verbal and written engagement with conceptually rigorous content.--Teaching Guide Course A, Volume 1, Overview p. T10.

The Alphabetic Labyrinth Cardiotext Publishing

This is an essential aid in the initial design and planning of a project. The relevant building type is located by a comprehensive index and cross reference system, a condensed commentary covers user requirements, planning criteria, basic dimensions and other considerations of function, siting aspect etc. A system of references based on an extensive bibliography supports the text. In every section plans, sections, site layouts, design details and graphs illustrated key aspects of a building type's design. Most illustrations are dimensioned or scaled - the metric system of measurement is used throughout, and the equivalent in feet/inches can easily be read either off a graphic scale on the page or from the built-in conversion table. The illustrations are international

in origin and include both well known and less famous designers. Architects since their invention. This book examines the many ways in which the letters of the alphabet have been assigned value in political, spiritual, or religious systems over two millennia.

Data is primarily a handbook of building types rather than of construction techniques and details. However its treatment of components (such as doors and windows) and of spaces for building services is extremely thorough, since consideration of this data is an essential element of the planning process. The opening pages of basic data on man and his buildings cover critical subjects such as scale, drawing practice, noise, light and space for the same reason. Particular attention has also been paid to the implications of energy conservation, means of escape from fire and the needs of the elderly and the disabled.

National Automotive Sampling System, Crashworthiness Data System Julius Smith

Cardiac Pacing: An Illustrated Introduction will provide an introduction to all those who have or who are developing an interest in cardiac pacing. At a time in the UK when pacing is being devolved from specialist tertiary cardiac centres to smaller district general hospitals and in the USA where pacemaker implantation is no longer the responsibility of the surgeon and in the domain of cardiologists, there is a need for a text which offers a guide to pacing issues to be used alongside a comprehensive practical training programme in an experienced pacing centre

Acoustic Absorbers and Diffusers Oxford University Press, USA

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.

Musimathics, Volume 1 Springer Science & Business Media

Principles of Musical Acoustics focuses on the basic principles in the science and technology of music. Musical examples and specific musical instruments demonstrate the principles. The book begins with a study of vibrations and waves, in that order. These topics constitute the basic physical properties of sound, one of two pillars supporting the science of musical acoustics. The second pillar is the human element, the physiological and psychological aspects of acoustical science. The perceptual topics include loudness, pitch, tone color, and localization of sound. With these two pillars in place, it is possible to go in a variety of directions. The book treats in turn, the topics of room acoustics, audio both analog and digital, broadcasting, and speech. It ends with chapters on the traditional musical instruments, organized by family. The mathematical level of this book assumes that the reader is familiar with elementary algebra. Trigonometric functions, logarithms and powers also appear in the book, but computational techniques are included as these concepts are introduced, and there is further technical help in appendices.

The Science and Applications of Acoustics CRC Press

The letters of the alphabet have been the object of speculation

since their invention. This book examines the many ways in which the letters of the alphabet have been assigned value in political, spiritual, or religious systems over two millennia.

The Ampleforth Journal London : J. Williams ; Paris : H. Lemoine

In the rapidly evolving field of treating cardiac arrhythmias, the importance of direct management of patients with implantable cardiac devices is growing. The devices have become increasingly complex, and understanding their algorithms and growing programming options is essential for physicians who implant and manage them. Written by experts and world authorities in the field, Pacemakers and Implantable Cardioverter Defibrillators: An Expert's Manual provides electrophysiologists, fellows in training, nurses, and cardiovascular technicians involved in day-to-day management of device patients with detailed information about the many device algorithms and interactions. Heavily illustrated with over 300 figures and tables Uniquely meets the day-to-day needs of all direct management professionals Focuses in detail on algorithms Describes device interactions, addressing every major manufacturer Provides in-depth insight into pacing, including biventricular pacing Discusses arrhythmia detection and device classification, testing, and therapy Pacemakers and Implantable Cardioverter Defibrillators: An Expert's Manual was listed by the American Journal of Cardiology as one of the "Good Books in Cardiovascular Disease in 2010." - American Journal of Cardiology Vol. 107, Issue 8, Pages 1250-1251

Concert Hall Acoustics Springer Science & Business Media

Breastfeeding is the preferred method of feeding in early life. It is also one of the most cost-effective childhood survival interventions. Breastfeeding practices are important for preventing child mortality and morbidity, as well as ensuring the optimal growth, health, and development of infants. The public health benefits of breastfeeding have been well documented in the medical literature, and include the following: associations with decreased risk for early-life diseases such as otitis media, respiratory tract infection, diarrhoea, and early childhood obesity (to name but a few). This Special Issue book includes a collection of studies on the use of novel methods to improve breastfeeding rates, and research exploring the short- and long-term benefits of breastfeeding for both the infant and mother, including technology-based approaches.

Smaart V8 User Guide Springer Science & Business Media

Unite the science of sound and the principles of design to enhance any space Architectural Acoustics Illustrated translates the quantitative and qualitative content of acoustics into the graphic language of architecture. This highly-visual guide includes over 350 illustrations that outline the physics of sound and the best design practices for limiting or mitigating noise in buildings by using the latest in materials and techniques. Each chapter includes a summary checklist of design guidelines to help prevent mistakes and oversights, and the Instructor's website offers video animations demonstrating acoustical concepts. Designed as a "first look" at the interaction of sound and space, the book explains the principles of architectural acoustics and their practical applications, providing a comprehensive guide for designing with acoustics in mind. Architectural acoustics is more than just concert halls - it may determine building placement, division of interior space, exterior construction, and even siting. When addressed early in the design process, the resulting space can be free of unwanted sound and promote good hearing; if left unaddressed, the problems with the space can lead to lawsuits and costly post-construction remediation.

Architectural Acoustics Illustrated helps designers solve most acoustical problems in advance, by enabling readers to: Understand the physical science underlying the behavior of sound. Consider the interactions of sound and space in the initial design approach. Mitigate building sounds such as those produced by HVAC and plumbing with early design planning. Design spaces for listening, and incorporate acoustics best practices into every plan. The highly visual format of the book helps readers grasp complex concepts quickly, and thorough discussion of each concept's real-world application ties the science directly into the design process. All design professionals need to have a fundamental understanding of acoustics, and Architectural Acoustics Illustrated is a comprehensive, practical guide in an easy-to-read format.

Orchestration Theory Hindawi Publishing Corporation

This textbook treats the broad range of modern acoustics from the basics of wave propagation in solids and fluids to applications such as noise control and cancellation, underwater acoustics, music and music synthesis, sonoluminescence, and medical diagnostics with ultrasound. The new edition is up-to-date and forward-looking in approach. Additional coverage of the opto-acoustics and sonoluminescence phenomena is included. New problems have been added throughout.

Architectural Acoustics Illustrated Wiley-Blackwell

This study of Handel's English church music covers well-known works such as 'Zadok the Priest', but also introduces his Chapel Royal music, the result of a close but changing relationship with Britain's Hanoverian royal family. The story of the political background is complemented by an investigation of the circumstances of Handel's performances.

Divisions of the Tetrachord Taylor & Francis

Absorbers and diffusers are two of the main design tools for altering the acoustic conditions of rooms, semi-enclosed spaces and the outdoor environment. Their correct use is important for delivering high quality acoustics. Unique and authoritative, this book describes how to effectively measure, model, design and apply diffusers and absorbers. It is a resource for new and experienced acousticians, seeking an understanding of the evolution, characteristics and application of modern diffusers. Absorption is a more established technology and so the book blends traditional designs with modern developments. The book covers practical and theoretical aspects of absorbers and diffusers and is well illustrated with examples of installations and case studies. This new edition brings Acoustic Absorbers and Diffusers up-to-date with current research, practice and standards. New developments in measurement, materials, theory and practice since the first edition (published in 2004) are included. The sections on absorbers are extended to include more about noise control.

Principles of Musical Acoustics Bloomsbury Publishing USA

PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.

Spotlight on Music Springer Science & Business Media

The Microphone Book is the only guide you will ever need to the latest in microphone technology, application and technique. This new edition features, more on microphone arrays and wireless microphones; a new chapter on classic old models; the latest developments in surround; expanded advice on studio set up, recording and mic selection; improved layout

for ease of reference; even more illustrations. John Eargle provides detailed analysis of the different types of microphones available. He then addresses their application through practical examples of actual recording sessions and studio operations. Surround sound is covered from both a creative and a technical viewpoint. This classic reference takes the reader into the studio or concert hall to see how performers are positioned and how the best microphone array is determined. Problem areas such as reflections, studio leakage and isolation are analyzed from practical viewpoints. Creative solutions to such matters as stereo sound staging, perspective, and balance are also covered in detail. Recording and sound reinforcement engineers at all levels of expertise will find The Microphone Book an invaluable resource for learning the 'why' as well as the 'how' of choosing a microphone for any situation.

PC Mag MDPI

Philip Newell's comprehensive reference work contains pearls of wisdom which anyone involved in sound recording will want to apply to their own studio design. He discusses the fundamentals of good studio acoustics and monitoring in an exhaustive yet accessible manner. Recording Studio Design covers the basic principles, their application in practical circumstances, and the reasons for their importance to the daily success of recording studios. All issues are approached from the premise that most readers will be more interested in how these things affect their daily lives rather than wishing to make an in-depth study of pure acoustics. Therefore frequent reference is made to examples of actual studios, their various design problems and solutions. Because of the importance of good acoustics to the success of most studios, and because of the financial burden which failure may impose, getting things right first time is essential. The advice contained in Recording Studio Design offers workable ways to improve the success rate of any studio, large or small.

Applied Acoustics: Concepts, Absorbers, and Silencers for Acoustical Comfort and Noise Control Hal Leonard Corporation

The acoustic quality of a concert hall has frequently posed a mysterious puzzle, namely, what physical aspects of the sound field can produce superior sound for the listener. The author has been probing for more than a decade into the subjective qualities preferred for musical and speech sounds. The result of his extensive investigations - the discovery that four and only four independent parameters contribute effectively to good acoustics - is summarized in the present book. The capability of calculating acoustical quality at any seat in a proposed concert hall is a unique and quite useful aspect of Ando's design method. Alternative architectural schemes can be compared based on the number of seats which exceeds a previously accepted minimum standard of acoustical quality.

Sound - Perception - Performance MDPI

From Rational Acoustics, the owners & developers Smaart, comes the official Smaart v8 User Guide. The Smaart v8 User Guide is a comprehensive guide to working with the latest version of professional audio's most widely used system analysis & optimization software. All of Smaart v8's measurement capabilities are covered in detail, along with helpful illustrations and application examples. It also includes sections on fundamental audio concepts, navigating the user interface, capturing & managing data as well as an extensive set of appendices covering measurement rig setup, licensing & installation, applicable standards and suggested further reading. Written in Rational Acoustics' approachable easy-to-read style, with just the right amount of geeky humor, the Smaart v8 User Guide is more than just a software manual, it

is a fantastic all-in-one reference that Smaart users will find themselves returning to again and again.