

Environmental And Architectural Acoustics

This is an unparalleled modern handbook reflecting the richly interdisciplinary nature of acoustics edited by an acknowledged master in the field. The handbook reviews the most important areas of the subject, with emphasis on current research. The authors of the various chapters are all experts in their fields. Each chapter is richly illustrated with figures and tables. The latest research and applications are incorporated throughout, including computer recognition and synthesis of speech, physiological acoustics, diagnostic imaging and therapeutic applications and acoustical oceanography. An accompanying CD-ROM contains audio and video files.

Architectural Acoustics, Second Edition presents a thorough technical overview of the discipline, from basic concepts to specific design advice. Beginning with a brief history, it reviews the fundamentals of acoustics, human perception and reaction to sound, acoustic noise measurements, noise metrics, and environmental noise characterization. In-depth treatment is given to the theoretical principles and practical applications of wave acoustics, sound transmission, vibration and vibration isolation, and noise transmission in floors and mechanical systems. Chapters on specific design problems demonstrate how to apply the theory, including treatment of multifamily dwellings, office buildings, rooms for speech, rooms for music, multipurpose rooms, auditoriums, sanctuaries, studios, listening rooms, and the design of sound reinforcement systems. Detailed figures illustrate the practical

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applications of acoustic principles, showing how to implement design ideas in actual structures. This compendium of theoretical and practical design information brings the relevant concepts, equations, techniques, and specific design problems together in one place, including both fundamentals and more advanced material. Practicing engineers will find it an invaluable reference for their daily work, while advanced students will appreciate its rigorous treatment of the basic building blocks of acoustical theory. Considered the most complete resource in the field – includes basic fundamental relations, derived from first principles, and examples needed to solve real engineering problems. Provides a well-organized text for students first approaching the subject as well as a reliable reference for experienced practitioners looking to refresh their technical knowledge base. New content for developing professionals includes case studies and coverage of specific focus areas such as audio visual design, theaters, and concert halls.

This primer for architects explores the basic physical principles and requirements of every aspect of passive and active controls in buildings. Avoiding needless jargon, *Environmental Issues for Architecture* supports an understanding of environmental systems in order to inform architectural design. With topics ranging from lighting, acoustics, thermal control, plumbing, fire protection and egress, to elevators and escalators, all of the latest technologies are supported. Designer-friendly, this rich resource gives just enough technical information for architects to design buildings that are efficient and comfortable.

The Elements of Architecture is a clear and well structured introduction to sustainable architecture,

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which concentrates on general principles to make an accessible and comprehensive primer for undergraduate students. The author takes a fresh and logical approach, focusing on the way aspects of the built environment are experienced by the occupants and how that experience is interpreted in architectural design. He works through basic elements and senses (sun; heat; light; sound; air; water and fire) to explain and frame effective environmental architectural design - not only arguing that the buildings we inhabit should be viewed as extensions of our bodies that interact with and protect us from these elements, but also using this analogy to explain complex ideas in an accessible manner.

Design Guidelines for Health Care Facilities

Sound Materials

Principles of Environmental Performance in Buildings

Architectural Acoustics Design Guide

A guide to integrated thinking

"This practical reference for design professionals and those in related fields, applies the latest research on sound behavior, high-performance materials, and audiovisual systems to a wide variety of building types and uses. Case studies draw on the firm's 22 years of experience as acoustical engineers, with drawings and diagrams helping to explain what can't be seen, only heard. Acoustics ""... takes what could be a dry, academic manual and infuses it with the energy of real life solutions.""

Representing a breakthrough in the practice of acoustical design, this two-CD-ROM set enables

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designers to preview sounds in a given space. The CDs' interactive menus allow users to select type of space, materials, and dimensions--then modify the virtual space for the preferred acoustical results. Included are hundreds of far-ranging examples of spaces, from concert halls to courtyards, to schools and residences. Through sound and animation, and supported by scores of actual case studies and examples, the fundamental module shows how sound is generated, travels, and is controlled.

*Discover sustainable methods for designing crucial building systems for architects. This indispensable companion to Norbert Lechner's landmark volume *Heating, Cooling, Lighting: Sustainable Design Methods for Architects, Third Edition* completes the author's mission to cover all topics in the field of sustainable environmental control. It provides knowledge appropriate for the level of complexity needed at the schematic design stage and presents the most up-to-date information available in a concise, logical, accessible manner and arrangement. Although sustainability deals with many issues, those concerning energy and efficiency are the most critical, making an additional goal of this book one of providing architects with the skills and knowledge needed to create buildings that use electricity and water efficiently. Guidelines and rules-of-thumb are*

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provided to help designers make their buildings use less energy, less water, and less of everything else to achieve their primary objectives. In addition, this book: Addresses ways to reduce electricity usage through more efficient lighting systems and appliances and by incorporating automatic switches and control systems that turn off systems not in use. Covers the design of well-planned effluent treatment systems that protect against potential health hazards while also becoming a valuable source of reclaimed water and fertilizer. Provides coverage of fire protection and conveyance systems, including very efficient types of elevators and escalators and designs that encourage the use of stairs or ramps. Complete with case studies that illustrate how these systems are incorporated into large-project plans, Plumbing, Electricity, Acoustics is an indispensable resource for any architect involved in a sustainable design project.

Soundscape Basics and Practical Implications
Soundscape research represents a paradigm shift, as it involves human and social sciences and physical measurements to account for the diversity of soundscapes across countries and cultures. Moreover, it treats environmental sounds as a resource rather than a waste. Soundscape and the Built Environment is the first book to systematically discuss soundscape in the built

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environment. It begins with a presentation of theory and basic background, answering questions such as: what is soundscape, how is it important, and how does it affect people in terms of their health and perception on the acoustic environment. The book then sets out tools for implementing a soundscape approach, with measurement techniques, mapping, and good soundscape practices. It also delivers a series of examples of the application of the soundscape approach in planning, design, and assessment. Discusses soundscape and environmental noise Explores cultural variations and the way they influence soundscape Introduces binaural measurement technology and psychoacoustics Examines the physical, psychological, and physiological restorative mechanism of high-quality acoustic environments Presents soundscape mapping based on human perception of sound sources Includes real-world examples and case studies highlighting the key issues in soundscape intervention Soundscape and the Built Environment is written by a group of leading international figures and derives from a four-year EU COST project on Soundscapes of European Cities and Landscapes. It presents a consensus on the current state of the art and is not merely a collection of different views. It is written for acoustic consultants, urban planners, designers

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and policy makers, as well as for graduate students and researchers.

Architectural Acoustics Handbook

A Compendium of Sound Absorbing Materials for Architecture and Design

Music, Acoustics, and Architecture

In Architecture and the Environment

Urban Sound Environment

Detailing over 100 sound absorbing materials and finishes with case studies of innovative architectural and design applications. Sound Materials is a definitive resource for architects, designers, acousticians, engineers, students and creative professionals – the first publication of its kind to catalogue over 100 sound absorbing materials, detailing inspiring real-world applications. Project profiles include work from leading architects and designers such as OMA, Gehry Partners, Foster + Partners, Ronan and Erwan Bouroullec, and Barber & Osgerby. These projects showcase sound absorbing materials in a variety of interior design and architectural contexts and underscore some of the common acoustical and material challenges presented by specific applications,

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such as healthcare, education, performing arts, office, retail and industrial environments. Fundamental technical concepts are clearly presented to offer readers with an understanding of how materials absorb sound and how these materials are commonly used to reduce noise and reverberation, inform our sense of space, and improve communication in everyday environments. This book not only surveys an extensive range of materials past, present and emerging, but also highlights many exciting opportunities for future innovation and collaboration at the intersections of acoustical engineering, materials science, design and architecture.

"The enormous increase of noise sources inside and outside our buildings, the simultaneous shift from heavy, traditional building constructions to thin, light-weight, moveable and prefabricated building elements, in conjunction with the growing demand for improved hearing conditions in Auditoria, have made architectural acoustics an essential component in the environmental control of buildings.

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Architectural acoustics, in both the fields of scientific research and practical application, has progressed further in the past few decades than during all preceding time, and consequently the amount of pertinent literature has reached an unprecedented high. It seemed to be worthy, therefore, to prepare an annotated bibliography on architectural acoustics for the assistance of those involved in architectural design problems, i.e., the architect, the engineer (mechanical and structural), the town planner, the builder, and the student of architecture and architectural acoustics."--

This document was commissioned by the Facility Guidelines Institute as the sole reference for acoustics in health care facilities. It was written by the Health Care Acoustics Working Group, a permanent committee of the Acoustics Research Council (ARC), comprised of members of leading professional societies in acoustics, noise control engineering, acoustical consulting and related professions. ARC organized the health care Working Group in 2004-5

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drawing its members from ten constituencies that range from medicine to law, public policy, architecture, design and engineering in order to provide constructive, guidance on sound and vibration based on research and best practices. Sound and Vibration 2.0 has been adopted as the sole reference standard for acoustics in health care facilities by: the 2010 FGI/ASHE "Guidelines for the Design and Construction of Healthcare Facilities" (used in 60 countries); the US Green Building Council's "LEED for Healthcare" (used in 87 countries); The Green Guide for Health Care V2.2; and the International Code Council's IGCC (2011). Sound and vibration are topics of increasing prominence in the design, construction, and operation of healthcare facilities. A satisfactory acoustical environment in a healthcare facility is now viewed as an essential component of effective healthcare. Sensible acoustical and privacy planning in the early design stages of a healthcare facility project can be solved effectively and affordably with a few strokes of the designer's pencil.

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The recommended minimum design requirements presented in this work are therefore intended to aid designers in achieving satisfactory acoustical and privacy environments in healthcare facilities. This handbook includes comprehensive, practical, and measureable guidelines for all aspects of acoustics in the design, construction, and evaluation of all types of healthcare facilities, including large general hospitals, specialized patient care facilities, and ambulatory patient care facilities. This book is a collection of contributions to the Special Issue "Historical Acoustics: Relationships between People and Sound over Time". The research presented here aims to explore the origins of acoustics and examine the relationships that have evolved over the centuries between people and auditory phenomena. Sounds have indeed accompanied human civilizations since the beginning of time, helping them to make sense of the world and to shape their cultures. Several key topics emerged, such as the acoustics of historical worship

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buildings, the acoustics of sites of archaeological interest, the acoustics of historical opera houses, and the topic of soundscapes as cultural intangible heritage. The book, as a whole, reflects the vibrant research activity around the “acoustics of the past”, which will hopefully be serve as a foundation for inspiring the future path of this discipline.

Methods and Applications of Wave-Based Computation

The Elements of Architecture

Environmental Acoustics

Uncertainty in Acoustics

Computational Simulation in

Architectural and Environmental Acoustics

This book reviews a variety of methods for wave-based acoustic simulation and recent applications to architectural and environmental acoustic problems. Following an introduction providing an overview of computational simulation of sound environment, the book is in two parts: four chapters on methods and four chapters on applications. The first part explains the fundamentals and advanced techniques for three popular methods, namely, the finite-difference time-domain method, the finite element method, and the boundary element method, as well as alternative

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time-domain methods. The second part demonstrates various applications to room acoustics simulation, noise propagation simulation, acoustic property simulation for building components, and auralization. This book is a valuable reference that covers the state of the art in computational simulation for architectural and environmental acoustics.

This book is an authoritative but uniquely accessible and highly illustrated guide to good acoustic design practice for architects, interior designers and acoustic professionals. It provides a user-friendly introduction to architectural acoustics and acoustics technology where the market is crowded with dense and technical texts. It will go through each typology in turn explaining the key acoustic concepts with highly illustrated and international case studies that demonstrate cutting-edge practice and technology, innovative design techniques and common challenges and solutions.

Over the past two decades there have been many major new developments in the field of urban sound environment. Jian Kang introduces and examines these key developments, including: the development of prediction methods for urban sound propagation establishment and application of noise-mapping software new noise control measures and design methods. Also covered is the new EU directive on noise and the substantial actions it has brought

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about across Europe. As the importance of soundscape, acoustic comfort and sound environment design have become widely recognized, *Urban Sound Environments* is a thoroughly useful book for students and practitioners in a wide range of fields, from urban planning and landscape through to architecture and acoustics. Acoustics as a branch of physics involves heavy mathematics, and the practice of architectural acoustics involves knowledge of a broad range of subjects. For these reasons, many people believe that good acoustics are almost impossible to obtain and exist only in concert halls. With a solid understanding of the basics, however, rooms with good acoustics are not as hard to design and build as people might think. This work describes acoustics and the factors to be considered in constructing a room or building with good sound quality. Among the topics covered are intonation, tuning and temperaments of classical music, environmental noise, noise and vibration control, sound measurement, sound systems, acoustic models, and acoustical design for various settings and purposes, including acoustics for chamber music, synagogues, churches, and classrooms. The work looks at places like Clemens Theatre, Congress Hall, Binns Rehearsal Room, and Philharmonic Hall, to name just a few, as models of small and large buildings with excellent acoustics. Many diagrams and other

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illustrations enhance the text.

Plumbing, Electricity, Acoustics

Acoustics

Relationships between People and Sound over Time

The Acoustics of Wood (1995)

A Guide To Their Acoustic and Visual Design,

Second Edition

This full-color book contains the state-of-the-art knowledge and latest trends and developments in architectural acoustics research. This reference will play a fundamental role in the sustainable progress of architectural acoustics research and practical applications. World-renowned experts in the field from both the research and consulting communities contributed to the 15 chapters covering a wide range of sub-fields including computational modeling, noise, vibration controls, and environmental acoustics in the built environment and around buildings. With information not found anywhere else, this handbook is geared for architectural acoustics research, education in academia, and practical applications among acoustics consultants and industry engineers. It is divided into two Parts: Architectural Acoustics Essentials and Architectural Acoustics Practice.

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Environmental Noise Barriers is a unique one-stop reference for practitioners, whether acoustical engineers, landscape architects, or manufacturers, and for highways departments in local and central authorities. This extensively revised new edition is updated in line with UK and EU legislation and international provision of barriers.

This book is a guide to the practical technology involved in achieving a more acceptable acoustic environment for human life.

"*Acoustics in the Built Environment* is an invaluable work of reference for the building professional, covering all aspects of acoustics. It is unique in its range of topics: the environment, transport infrastructure, building design, building systems and buildings in use. Each section has been contributed by an expert in the field, and has been written in the light of recent developments such as the Environmental Protection Act and the Health and Safety Executive's Noise at Work Regulations for minimizing hearing damage." "The book presents information relevant to the day-to-day work of project design teams in a concise, readily accessible and usable form. Frequent reference is made to appropriate

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Standards, Acts of Parliament and other prescriptive documents, which can be cited in performance specifications." "Its broad range of subject matter and its ease of use make Acoustics in the Built Environment an indispensable source of information for anyone concerned with building acoustics, whether they are architects, planners, engineers or environmental health officers."--BOOK JACKET. Title Summary field provided by Blackwell North America, Inc. All Rights Reserved

Historical Acoustics

ENVIRONMENTAL AND ARCHITECTURAL ACOUSTICS.

Architectural Acoustics

Architecture, Engineering, the Environment (an Annotated Bibliography on Architectural Acoustics)

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. More people are spending more time at home making more noise--yet they want quiet environments. This is the only book available that tells designers, planners, architects, and builders how to give homeowners and apartment-dwellers the quiet they crave. Simple enough to be used by the average do-it-yourselfer (it avoids complex mathematics), yet so complete it will satisfy the requirements of knowledgeable building professionals, this authoritative guide gives you one-stop answers on designing, specifying, testing, and retrofitting residences to meet the new

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environmental standards and satisfy our need for peace and quiet.

Adopting a multi-disciplinary approach to the practice of achieving a more acceptable acoustic environment, this book draws on the same basic principles to cover both the outdoors and indoor space. It starts with the fundamentals of sound waves and hearing and goes on to the measurement of noise and vibration, room acoustics, sound absorption, air

Comprehensive, up-to-date coverage of principles, materials, and technologies Architectural Acoustics provides the vital information that architects, engineers, and all concerned with the built environment need to control and direct wanted or unwanted sounds within and around buildings. A team of internationally recognized experts presents the very latest information on acoustical materials, technologies, design criteria, and methods for a wide variety of applications, including airports and other transportation facilities; theaters, churches, and concert halls; classrooms, lecture halls, and libraries; music practice rooms and recording studios; sports venues; and all types of residential, commercial, and industrial buildings. This comprehensive reference is one of the few books of its kind to include richly detailed case studies that demonstrate real-world applications of acoustic principles, materials, and methods. Nearly two hundred photos and illustrations further elucidate specific principles, applications, and techniques. Topics covered include:

- * Basic principles of architectural acoustics
- * Acoustical materials and methods
- * Building noise control applications

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

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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.

Environmental Noise Barriers

Concert Halls and Opera Houses

The Effects of Sound on People

Acoustics and Noise Control

Environmental and Architectural Acoustics

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Provides a summary of current research results on the physiological and psychological effects of sound on people Covers how the operation of the hearing mechanism affects our reactions to sounds Includes research results from studies on noise sources of public concern such as transportation, public utility, and recreational sources, with emphasis on low frequency sound and infrasound Covers sounds that affect some but not others, how sounds can be controlled on a practical level, and how and what sounds are regulated Includes coverage of both positive and negative effects of sound

Adopting a multi-disciplinary approach to the practice of achieving a more acceptable acoustic environment, this book draws on the same basic principles to cover both the outdoors and indoor space. It starts with the fundamentals of sound waves and hearing and goes on to the measurement of noise and vibration, room acoustics, sound absorption, airborne sound insulation and noise and vibration control. This serves as a foundation reference for students of architecture and environmental engineering, including those new to the study of acoustics. Problem-solving exercises are provided at the end of each chapter. The authors focus on techniques, methods and standards and lead into further more specialized material which makes the book useful for more advanced students and professional engineers.

Acoustics and Noise Control provides a detailed and comprehensive introduction to the principles and practice of acoustics and noise control. Since the last edition was published in 1996 there have been many changes and additions to standards, laws and regulations, codes of practice relating to noise, and in noise measurement techniques and noise control technology so this new edition has been fully revised and updated throughout. The book assumes no previous knowledge of the subject and requires only a basic knowledge of mathematics and physics. There are worked examples in the text to aid understanding and a range of experiments help students use complicated apparatus. Thoroughly revised to cover the latest changes in standards, codes of practice and legislation, this new edition covers much of the Institute of Acoustics Diploma syllabus and has an increased emphasis on the legal issues relating to noise control. This guide to estimating uncertainties in the measurement, prediction and assessment of noise and vibration applies across environmental noise and vibration, occupational noise and vibration exposure, and building and architectural acoustics. The book collates information from the various Standards and from research, with explanation, examples and case studies. It enables estimation of uncertainty in the measurement and prediction of acoustic quantities, suitable for use in environmental

impact and occupational exposure assessments. It is for acoustic consultants, mechanical and building service engineers, architect and building professionals and environmental health officers. Bob Peters worked for more than forty years in acoustics and noise control - teaching, research, consultancy. He was a principal acoustic consultant with Applied Acoustic Design, a senior research fellow at London South Bank University, and a tutor on Institute of Acoustics distance learning courses.

Noise Control Manual for Residential Buildings Principles and Practice

Acoustics in the Built Environment

Springer Handbook of Acoustics

Brain-Grounded Theory of Temporal and Spatial Design

The application of good acoustic design can seem daunting to designers when trying to understand the often-complex physics of sound control. The ever-increasing number of standards and performance criteria that can be requested on new developments further complicates acoustics for architects. Architectural Acoustics, part of the PocketArchitecture series, provides the fundamental theory and understanding of acoustics and applications of effective detailing for specific building types and conditions in an accessible and clear technical guide. The book provides: a compact and understandable introduction to the

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fundamentals of building and architectural acoustics definitions of suitable acoustic performance criteria for a wide range of common buildings and room types guidance on specification and detailing of the most suitable construction types in North America and the UK. This book is both, a handy rule of thumb on acoustics for anyone involved in the design or construction of buildings, as well as an essential addition to any architect's reference library.

This illustrated guide to 100 of the world's most important concert halls and opera houses examines their architecture and engineering and discusses their acoustical quality as judged by conductors and music critics. The descriptions and photographs will serve as a valuable guide for today's peripatetic performers and music lovers. With technical discussions relegated to appendices, the book can be read with pleasure by anyone interested in musical performance. The photographs (specially commissioned for this book) and architectural drawings (all to the same scale) together with modern acoustical data on each of the halls provide a rich and unmatched resource on the design of halls for presenting musical performances. Together with the technical appendices, the data and drawings will serve as an invaluable reference for architects and engineers involved in the design of spaces for the performance of music.

Offers architects, musicians, engineers, and

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other individuals concerned with the problems of environmental acoustics a guide to the acoustical design and construction of buildings. Bibliogs

Acoustics of Wood offers a detailed treatment of numerous topics that are valuable to those working with wood in architecture, engineering, acoustics, and the crafting of musical instruments. It presents a comprehensive account of the progress and current knowledge concerning wood acoustics, outlining the anatomy and physiology of wood and the specific applications in which its acoustic properties are relevant. Acoustics of Wood reviews state-of-the-art measurement systems and includes material that has not been widely published. Divided into three main parts, the book describes environmental acoustics, presents acoustics methods for the characterization of the elastic behavior of wood, and discusses acoustic methods for the assessment of wood quality.

Architectural Acoustics Illustrated

Sustainable Design Methods for Architecture

Acoustics of Small Rooms

Acoustics in Architectural Design

Advice for the Design Team

Much time is spent working out how to optimize the acoustics of large rooms, such as auditoria, but the acoustics of small rooms and environments can be just as vital. The expensive sound equipment of a recording studio or the stereo in a car or living room is likewise rendered useless if the acoustic environment is not right

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for them.Changes in wa

"Designed as the ideal companion to the unparalleled architectural acoustical design and teaching tool, Architectural Acoustics on CD-ROM, this print resource also stands alone. It contains all the tools and tricks you need to master the acoustics of any space."--BOOK JACKET.

In this book, brain-grounded theory of temporal and spatial design in architecture and the environment is discussed. The author believes that it is a key to solving such global problems as environmental disorders and severe climate change as well as conflicts that are caused by the ill-conceived notion of "time is money". There are three phases or aspects of a person's life: the physical life, the spiritual or mental life, and the third stage of life, when a person moves from middle age into old age and can choose what he or she wishes to do instead of simply what must be done. This book describes the temporal design of the environment based on the theory of subjective preference, which could make it possible for an individual to realize a healthy life in all three phases. In his previously published work, the present author wrote that the theory of subjective preference has been established for the sound and visual fields based on neural evidence, and that subjective preference is an overall response of cooperating temporal and spatial factors, associated with the brain's left and right hemispheres, respectively. In this book, based on that theory, some examples are shown for the temporal design of architecture and the environment, which may play important roles in the development of personality, thus inducing creativity. Also discussed is how

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all individuals may find their own personality and develop it according to the preferred direction of their individual lives.

Soundscape and the Built Environment

Environmental Issues for Architecture

Sound & Vibration 2.0

Measurement, Prediction and Assessment