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ANA M. JARAMILLO
AND CHRIS STEEL

ARCHITECTURAL ACOUSTICS



Architectural Acoustics Pocketarchitecture

Ravi Srinivasan, Kiel Moe



Architectural Acoustics Pocketarchitecture:

Architectural Acoustics A. M. Jaramillo, 2014 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 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

Architectural Acoustics Ana Jaramillo, Chris Steel, 2014-10-24 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 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

Daylighting and Integrated Lighting Design Christopher Meek, Kevin Van Den Wymelenberg, 2014-10-17 Daylighting and Integrated Lighting Design provides architects building designers and students clear direction for the successful inclusion of daylight and integrated electric light in buildings It presents design teams with the performance analysis resources energy saving estimates and user satisfaction results they need in order to make informed decisions regarding daylighting and lighting design Written by two well known experts in the field the book provides critical geometric and material relationships

along with proven design process activities offered in a quick reference format with sufficient context to address the range of associated issues present in any building project both the fundamentals and applications which cover design concepts and practice activities applicable to all integrated lighting projects specific directives for how the concepts covered are applied in a range of common design scenarios including architectural rules of thumb instructions for ensuring visual comfort and preferred approaches for electric lighting control integration In demonstrating these necessary insights to designers the authors employ an iterative analysis of common daylighting patterns and illustrate and annotate both successful and unsuccessful examples via built form and simulation Part of the PocketArchitecture series this is the ideal pocketbook for any designer serious about reducing the energy impact of their buildings

The Sound of Architecture Angeliki Sioli, Elisavet Kiourtsoglou, 2022-05-18 How sound and its atmospheres transform architecture Acoustic atmospheres can be fleeting elusive or short lived Sometimes they are constant but more often they change from one moment to the next forming distinct impressions each time we visit certain places Stable or dynamic acoustic atmospheres have a powerful effect on our spatial experience sometimes even more so than architecture itself This book explores the acoustic atmospheres of diverse architectural environments in terms of scale program location or historic period providing an overview of how acoustic atmospheres are created perceived experienced and visualized The contributors explore how sound and its atmospheres transform architecture and space Their essays demonstrate that sound is a tangible element in the design and staging of atmospheres and that it should become a central part of the spatial explorations of architects designers and urban planners The Sound of Architecture will be of interest to architectural historians theorists students and practicing architects who will discover how acoustic atmospheres can be created without complex and specialized engineering It will also be of value to scholars working in the field of history of emotions as it offers evocative descriptions of acoustic atmospheres from diverse cultures and time periods

Life Cycle Assessment Kathrina Simonen, 2014-04-16 Life Cycle Assessment addresses the dynamic and dialectic of building and ecology presenting the key theories and techniques surrounding the use of life cycle assessment data and methods Architects and construction professionals must assume greater responsibility in helping building owners to understand the implications of making material manufacturing and assemblage decisions and therefore design to accommodate more ecological building Life Cycle Assessment is a guide for architects engineers and builders presenting the principles and art of performing life cycle impact assessments of materials and whole buildings including the need to define meaningful goals and objectives and critically evaluate analysis assumptions As part of the PocketArchitecture Series the book includes both fundamentals and advanced topics The book is primarily focused on arming the design and construction professional with the tools necessary to make design decisions regarding life cycle reuse and sustainability As such the book is a practical text on the concepts and applications of life cycle techniques and environmental impact evaluation in architecture and is presented in language and depth appropriate for building industry professionals

Architectural Acoustics William J. Cavanaugh, Gregory C. Tocci, Joseph A. Wilkes, 2009-11-16 Get the leading guide to acoustics for architects engineers and interior designers A widely recognized comprehensive reference to acoustic principles for all concerned with the built environment Architectural Acoustics Second Edition provides design professionals with up to date information on basic concepts acoustical materials and technologies for controlling wanted or unwanted sound within and around buildings Written by a team of internationally recognized experts and experienced consultants this Second Edition covers fundamental acoustic principles design criteria acoustical materials control strategies and methods for a wide variety of building types including educational healthcare recreational residential commercial industrial and transportation facilities Particular attention is given to places for listening and performance such as theaters churches concert and recital halls outdoor arenas classrooms multiuse auditoria libraries music practice and rehearsal rooms recording and broadcast studios sports venues home theaters and other spaces that people meet to communicate and enjoy performance Updated throughout this edition features New information on acoustical standards and guidelines for sustainable building design Additional richly detailed case studies demonstrating real world applications including the acclaimed Walt Disney Concert Hall and many other building types Nearly 200 photos and illustrations that further elucidate specific principles applications and techniques New developments in sound reinforcement and audio visual systems and their integration in room design Progress in research and future directions in acoustical modeling With fundamental conceptual understanding of basic acoustical principles provided by Architectural Acoustics Second Edition building designers can confidently create aesthetically and aurally pleasing spaces while avoiding problems that could be very costly if not impossible to solve later

Pocket Architecture, Minneapolis Bernard Jacob, Carol Morphew, 1987 **The Hierarchy of Energy in Architecture** Ravi Srinivasan, Kiel Moe, 2015-06-12 The laws of thermodynamics and their implications for architecture have not been fully integrated into architectural design Architecture and building science too often remain constrained by linear concepts and methodologies regarding energy that occlude significant quantities and qualities of energy The Hierarchy of Energy in Architecture addresses this situation by providing a clear overview of what energy is and what architects can do with it Building on the emergy method pioneered by systems ecologist Howard T Odum the authors situate the energy practices of architecture within the hierarchies of energy and the thermodynamics of the large non equilibrium non linear energy systems that drive buildings cities the planet and universe Part of the PocketArchitecture series the book is divided into a fundamentals section which introduces key topics and the emergy methodology and an applications section which features case studies applying emergy to various architectural systems The book provides a concise but rigorous exposure to the system boundaries of the energy systems related to buildings and as such will appeal to professional architects and architecture students **Building Information Modeling** Karen M. Kensek, 2014-04-16 This is a design guide for architects engineers and contractors concerning the principles and specific applications of building information modeling

BIM has the potential to revolutionize the building industry and yet not all architects and construction professionals fully understand what the benefits of BIM are or even the fundamental concepts behind it. As part of the PocketArchitecture Series, it includes two parts: fundamentals and applications, which provide a comprehensive overview of all the necessary and essential issues. It also includes case studies from a range of project sizes that illustrate the key concepts clearly and use a wide range of visual aids. Building Information Modeling addresses the key role that BIM is playing in shaping the software tools and office processes in the architecture, engineering, and construction professions. Primarily aimed at professionals, it is also useful for faculty who wish to incorporate this information into their courses on digital design, BIM, and professional practice. As a compact summary of key ideas, it is ideal for anyone implementing BIM.

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