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Environmental Methods for Transport Noise Reduction

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Environmental Methods For Transport Noise Reduction

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Presents Evidence Based Guidance on Noise Abatement Methods Solutions for reducing the noise impact of road and rail traffic can be found in the use of natural elements in combination with artificial elements in urban and rural environments Ground and road surface treatments trees forests and tall vegetation and the greening of buildings and ot

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Presents Evidence Based Guidance on Noise Abatement Methods Solutions for reducing the noise impact of road and rail traffic can be found in the use of natural elements in combination with artificial elements in urban and rural environments Ground and road surface treatments trees forests and tall vegetation and the greening of buildings and other surfaces can contribute to powerful and cost effective noise reduction Environmental Methods for Transport Noise Reduction presents the main findings of the Holistic and Sustainable Abatement of Noise by optimized combinations of Natural and Artificial means HOSANNA research project This project involved experts from seven countries and assessed noise reduction in terms of sound level reductions perceptual effects and cost benefit analysis It considered a number of green abatement strategies and aimed to develop a toolbox for reducing road and rail traffic noise in outdoor environments Combines Theory with Practice Broad in both theory and application and based on leading edge research the book brings together the findings and their practical use It details assessment methods for perceived noise and outlines noise prediction methods that can be integrated with noise mapping software It also explores the economic benefits and positive effects on urban air quality and CO2 levels The material is this book Includes up to date results on noise mitigation using vegetation and ground treatments Contains relevant results on innovative noise barrier designs Presents data on acoustic performance of vegetation and soil substratum Provides perceptual and cost benefit analyses of noise mitigation methods Environmental Methods for Transport Noise Reduction is a helpful guide for

A Sound Approach to Noise and Health Irene van Kamp, Fred Woudenberg, 2024-10-22 This open access book highlights the negative and positive health effects of chronic exposure to environmental sound It describes the state of the art in the field from a public health point of view and puts it in a broad societal perspective looking at sound from physical social psychological economic and governance angles Rather than a mere collection of papers around the theme as usually provided in special issues this book offers a comprehensive look at the meaning of sound in society and its impacts and provides directions to further advance the field Promoting Healthy and Supportive Acoustic Environments: Going beyond the Quietness Francesco Aletta, Jian Kang, 2020-11-04 This book gathers 14 original contributions published in an IJERPH Special Issue that deal with the perception of environmental sounds and how such sounds are likely to affect human quality of life and well being and the experience of a place The research focus over the years has been gradually shifting from treating sound simply as noise and something that cities should get rid of to a

potential resource to promote and support community life in public spaces Three main topics or needs to be addressed by researchers and practitioners emerged from this Special Issue 1 the need to re think quietness in cities as something that goes beyond the mere pursuit of silence 2 the need to integrate additional contextual factors in the characterization and management of urban acoustic environments for public health and 3 the need to consider the acoustic quality of indoor spaces as opposed to an outdoor only perspective The contributions collected in this book will hopefully trigger new questions and inform the agenda of future researchers and practitioners in the environmental acoustics domain

Predicting Outdoor Sound Keith Attenborough, Timothy Van Renterghem, 2021-03-07 The second edition of Predicting Outdoor Sound is an up to date reference on the propagation of sound close to the ground and its prediction New content includes comparisons between predictions and data for road traffic railway and wind turbine noise descriptions of source characteristics in the HARMONOISE model propagation over rough seas parallel low walls and lattices outlines of numerical methods gabion caged stones and sonic crystal noise barriers meteorological effects on noise barrier performance and the prediction requirements for auralization The book brings together relevant theories prediction schemes and data thereby providing a basis for determining what model or scheme might be applicable for any situation It also offers a background on useful analytical approximations and the restrictions as well as difficulties and limitations associated with engineering prediction schemes The text should be of considerable interest to researchers in outdoor sound propagation and more generally it should provide a comprehensive primer on the topic for lecturers consultants and students in acoustics and noise control

Nature Based Strategies for Urban and Building Sustainability Gabriel Perez, Katia Perini, 2018-02-14 Nature Based Strategies for Urban and Building Sustainability reviews the current state of the art on the topic In the introduction the editors review the fundamental concepts of nature elements in the built environment along with the strategies that are necessary for their inclusion in buildings and cities Part One describes strategies for the urban environment discussing urban ecosystems and ecosystem services while Part Two covers strategies and technologies including vertical greening systems green roofs and green streets Part Three covers the quantitative benefits results and issues and challenges including energy performances and outdoor comfort air quality improvement acoustic performance water management and biodiversity Provides an overview of the different strategies available to integrate nature in the built environment Presents the current state of technology concerning systems and methodologies on how to incorporate nature in buildings and cities Features the latest research results on operation and ecosystem services Covers both established and new designs including those still in the experimental stage

Encyclopedia of Environmental Health, 2019-08-22 Encyclopedia of Environmental Health Second Edition Six Volume Set presents the newest release in this fundamental reference that updates and broadens the umbrella of environmental health especially social and environmental health for its readers There is ongoing revolution in governance policies and intervention strategies aimed at evolving changes in health

disparities disease burden trans boundary transport and health hazards This new edition reflects these realities mapping new directions in the field that include how to minimize threats and develop new scientific paradigms that address emerging local national and global environmental concerns Represents a one stop resource for scientifically reliable information on environmental health Fills a critical gap with information on one of the most rapidly growing scientific fields of our time Provides comparative approaches to environmental health practice and research in different countries and regions of the world Covers issues behind specific questions and describes the best available scientific methods for environmental risk assessment

Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications João Manuel R. S. Tavares, João Paulo Papa, Manuel González Hidalgo, 2022-01-13 This book constitutes the proceedings of the 25th Iberoamerican Congress on Progress in Pattern Recognition Image Analysis Computer Vision and Applications CIARP 2021 which took place during May 10 13 2021 The conference was initially planned to take place in Porto Portugal but changed to a virtual event due to the COVID 19 pandemic The 45 papers presented in this volume were carefully reviewed and selected from 82 submissions They were organized in topical sections as follows medical applications natural language processing metaheuristics image segmentation databases deep learning explainable artificial intelligence image processing machine learning and computer vision

Handbook of Research on Perception-Driven Approaches to Urban Assessment and Design Aletta, Francesco, Xiao, Jiuling, 2018-01-05 The creation of metropolitan areas is influenced by a wide array of factors both practical and ecological They can also be influenced by immaterial characteristics of a given area The Handbook of Research on Perception Driven Approaches to Urban Assessment and Design is a scholarly resource that assesses metropolitan development and its relation to the ecological and sustainability issues these areas face Featuring coverage on a wide range of topics such as user centered urban planning perception of urban landscapes and thermal comfort in urban contexts this publication is geared toward professionals practitioners researchers and students seeking relevant research on the effective planning of metropolitan areas and their relation to the ecological and sustainability issues that face such areas

Highway Safety Literature ,1980

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