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Impact of Littoral Environmental Variability on Acoustic Predictions and Sonar Performance Springer Science & Business Media The limiting influence of the environment on sonar has long been recognised as a major challenge to science and technology. As the area of interest shifts towards the littoral, environmental influences become dominant both in time and space. The manifold challenges encompass prediction, measurement, assessment and adaptive responses to maximize the effectiveness of systems. Although MCM and ASW activities are dominated in different ways and scales by the environment, both warfare areas have had to consider the significantly changing requirements posed by operations in the littoral. The fundamental scientific issues involved in developing models relating acoustics to the environment are matched in difficulty by the need for data for their validation and eventual practical use for prediction. In many instances the need is for on-line adaptation of systems to changing circumstances whilst other needs are for the longer term planning activities. This book and the attached full-color CD are the proceedings of a conference organized by the SACLANT Undersea Research Centre, held at Villa Marigola, Lerici, Italy, on 16-20 September 2002. The fundamental problems associated with environmental variability and sonar were explored at a previous SACLANTCEN conference in 1990. These problems have not gone away but, on the one hand are exaggerated by the move to the littoral and on the other hand, are open to treatment in new ways that advances in technology and computer power allow. Handbook of Research Methods on the Quality of Working Lives Edward Elgar Publishing The growing diversity of contemporary paid work has provoked increased interest in understanding and evaluating the quality of working lives. This Handbook provides critical reflections on recent research in the field, including examining the inextricable links between working life and well-being. Acoustics in the Built Environment: a Challenge for Improving the Quality of Life Frontiers Media SA Scientific and Engineering Studies: Studies in acoustic signal processing Channel Modeling and Threshold Signal Processing in Underwater Acoustics An Analytical Overview An overview of underwater acoustic channel modeling and threshold signal processing is presented which emphasizes the inhomogeneous, random, and nongaussian nature of the generalized channel, combined with appropriate weak-signal detection and estimation. Principal attention is given to the formal structuring of the scattered and ambient acoustic noise fields, as well as that of the desired signal, including both fading and doppler smear phenomena. The role of general receiving arrays is noted, as well as their impact on spatial as well as temporal signal processing and beam forming, as indicated by various performance measures in detection and estimation. The emphasis here is on limiting optimum threshold systems, with some attention to suboptimum cases. Specific first-order probability density functions for the nongaussian components of typical underwater acoustic noise environments are included along with their field covariances. Several examples incorporating these pdf's are given, to illustrate the applications and general methods involved. The fundamental role of the detector structure in determining the associated optimum estimators is noted: the estimators are specific linear or nonlinear functionals of the original optimum detector algorithm, depending on the criterion (i.e., minimization of the chosen error or cost function) selected. Results for both coherent and incoherent modes of reception are presented, reflecting the fact that frequently signal epoch is not known initially at the receiver. (jhd). Handbook of Research on Remote Work and Worker Well-Being in the Post-COVID-19 Era IGI Global With the introduction of policies to combat COVID-19, far greater numbers of employees across the globe—including those with limited job autonomy—have moved to undertake their entire job at home. Although challenging in the current climate, embracing these flexible modes of work such as working at home, including relevant investment in technology to enable this, will not only deliver potential organizational benefits but also increase the adaptability of the labor market in the short and longer terms. Although perhaps not the central concern of many in the current climate, “good” home-based work is achievable and perhaps even a solution to the current work-based dilemma created by COVID-19 and should be a common goal for individuals, organizations, and society. Research also has shifted to focus on the routines of workers, organizational performance, and well-being of companies and their employees along with reflections on the ways in which these developments may influence and alter the nature of paid work into the post-COVID-19 era. The Handbook of Research on Remote Work and Worker Well-Being in the Post-COVID-19 Era focuses on the rapid expansion of remote working in response to the global COVID-19 pandemic and the impacts it has had on both employees and businesses. The content of the book progresses understanding and raises awareness of the benefits and challenges faced by large-scale movements to remote working, considering the wide array of different ways in which the large-scale movement to remote working is impacting working lives and the economy. This book covers how different fields of work are responding and implementing remote work along with providing a presentation of how work occurs in digital spaces and the impacts on different topics such as gender dynamics and virtual togetherness. It is an ideal reference book for HR professionals, business managers, executives, entrepreneurs, policymakers, researchers, students, practitioners, academicians, and business professionals interested in the latest research on remote working and its impacts. Aural Architecture in Byzantium Music, Acoustics, and Ritual Taylor & Francis Emerging from the challenge to reconstruct sonic and spatial experiences of the deep past, this multidisciplinary collection of ten essays explores the intersection of liturgy, acoustics, and art in the churches of Constantinople, Jerusalem, Rome and Armenia, and reflects on the role digital technology can play in re-creating aspects of the sensually rich performance of the divine word. Engaging the material fabric of the buildings in relationship to the liturgical ritual, the book studies the structure of the rite, revealing the important role chant plays in it, and confronts both the acoustics of the physical spaces and the hermeneutic system of reception of the religious services. By then drawing on audio software modelling tools in order to reproduce some of the visual and aural aspects of these multi-sensory public rituals, it inaugurates a synthetic approach to the study of the premodern sacred space, which bridges humanities with exact sciences. The result is a rich contribution to the growing discipline of sound studies and an innovative convergence of the medieval and the digital. Performance Analysis of an Acoustic Time Reversal System in Dynamic and Random Oceanic Environments The Oxford Handbook of Environmental and Conservation Psychology Oxford University Press First handbook to integrate environmental psychology and conservation psychology. The Journal of the Acoustical Society of America Digital Transformation of the Design, Construction and Management Processes of the Built Environment Springer Nature This open access book focuses on the development of methods, interoperable and integrated ICT tools, and survey techniques for optimal management of the building process. The construction sector is facing an increasing demand for major innovations in terms of digital dematerialization and technologies such as the Internet of Things, big data, advanced manufacturing, robotics, 3D printing, blockchain technologies and artificial intelligence. The demand for simplification and transparency in information management and for the rationalization and optimization of very fragmented and splintered processes is a key driver for digitization. The book describes the contribution of the ABC Department of the Polytechnic University of Milan (Politecnico di Milano) to R&D activities regarding methods and ICT tools for the interoperable management of the different phases of the building process, including design, construction, and management. Informative case studies complement the theoretical discussion. The book will be of interest to all stakeholders in the building process - owners, designers, constructors, and faculty managers - as well as the research sector. Architectural Acoustics Principles and Practice John Wiley & Sons 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. Indoor Thermal Comfort MDPI As the century begins, natural resources are under increasing pressure, threatening public health and development. As a result, the balance between man and nature has been disrupted, with climatic changes whose effects are starting to be irreversible. Due to the relationship between the quality of the indoor built environment and its energy demand, thermal comfort issues are still relevant in the disciplinary debate. This is also because the indoor environment has a potential impact on occupants' health and productivity, affecting their physical and psychological conditions. To achieve a sustainable compromise in terms of comfort and energy requirements, several challenging questions must be answered with regard to design, technical, engineering, psychological, and physiological issues and, finally, potential interactions with other IEQ issues that require a holistic way to conceive the building envelope design. This Special Issue collected original research and review articles on innovative designs, systems, and/or control domains that can enhance thermal comfort, work productivity, and wellbeing in a built environment, along with works considering the integration of human factors in buildings' energy performance. Acoustic Textiles Springer This book highlights the manufacturing and applications of acoustic textiles in various industries. It also includes examples from different industries in which acoustic textiles can be used to absorb noise and help reduce the impact of noise at the workplace. Given the importance of noise reduction in the working environment in several industries, the book offers a valuable guide for companies, educators and researchers involved with acoustic materials. Organizational Health An Integrated

Approach to Building Optimum Performance Kogan Page Publishers Organizational Health is an organization's ability to function effectively, to cope adequately, to change appropriately, and to grow from within. A healthy organization is just that in all its aspects: people, process, structures, systems, behaviours and governance. It is one where appropriate adaptive, maintenance and development activities are integral to maintaining performance and alignment in the operating environment. Organizational Health takes an informed look at the critical and interdependent elements of an organization that must be maintained in a healthy state for managers to meet their business goals. Using a practical, structured approach it covers: understanding and assessing organizational health; the impact of structures on organizational health such as hierarchies, alliances and joint ventures; control methods such as corporate governance, ethics and compliance; maintenance and development including OD, change management, learning and workplace environment; sustainability including carbon footprint and business ecosystems; indicators of health and dysfunction. Additional material and a weekly blog is available by visiting the author's website: www.naomistandford.com Proceedings of the 7th International Conference on Business and Finance AOSIS Cape Town, South Africa, 9 Sept. 2015 - 10 Sept. 2015. Theme: 'Creating futures: Sustainable economies?', Purpose: To share continuous and collaborative research outputs that review existing strategies and to propose mechanisms for the likely achievement of a sustainable economy that is unique but inclusive to different entities in the world. Target audience: This year's 7th International Conference on Business and Finance (ICBF) continues its tradition of being the premier forum for presentation of research results and experience reports on contemporary issues of finance, accounting, entrepreneurship, business innovation, big data, e-Government, public management, development economics and information systems, including models, systems, applications, and theory. Editorial Policy: All papers were refereed by a double blind reviewing process in line with the South African, Department of Higher Education Training (DHET) refereeing standards. Papers were reviewed according to the following criteria: relevance to conference themes, relevance to audience, contribution to scholarship, standard of writing, originality and critical analysis. Space Safety and Human Performance Butterworth-Heinemann Space Safety and Human Performance provides a comprehensive reference for engineers and technical managers within aerospace and high technology companies, space agencies, operators, and consulting firms. The book draws upon the expertise of the world's leading experts in the field and focuses primarily on humans in spaceflight, but also covers operators of control centers on the ground and behavior aspects of complex organizations, thus addressing the entire spectrum of space actors. During spaceflight, human performance can be deeply affected by physical, psychological and psychosocial stressors. Strict selection, intensive training and adequate operational rules are used to fight performance degradation and prepare individuals and teams to effectively manage systems failures and challenging emergencies. The book is endorsed by the International Association for the Advancement of Space Safety (IAASS). Provides information on critical aspects of human performance in space missions Addresses the issue of human performance, from physical and psychosocial stressors that can degrade performance, to selection and training principles and techniques to enhance performance Brings together essential material on: cognition and human error; advanced analysis methods such as human reliability analysis; environmental challenges and human performance in space missions; critical human factors and man/machine interfaces in space systems design; crew selection and training; and organizational behavior and safety culture Includes an endorsement by the International Association for the Advancement of Space Safety (IAASS) Ecoacoustics The Ecological Role of Sounds John Wiley & Sons The sounds produced by geophonic, biophonic and technophonic sources are relevant to the function of natural and human modified ecosystems. Passive recording is one of the most non-invasive technologies as its use avoids human intrusion during acoustic surveys and facilitates the accumulation of huge amounts of acoustical data. For the first time, this book collates and reviews the science behind ecoacoustics; illustrating the principles, methods and applications of this exciting new field. Topics covered in this comprehensive volume include; the assessment of biodiversity based on sounds emanating from a variety of environments the best technologies and methods necessary to investigate environmental sounds implications for climate change and urban systems the relationship between landscape ecology and ecoacoustics the conservation of soundscapes and the social value of ecoacoustics areas of potential future research. An invaluable resource for scholars, researchers and students, Ecoacoustics: The Ecological Role of Sounds provides an unrivalled set of ideas, tools and references based on the current state of the field. Proceedings of the 1998 IEEE International Conference on Acoustics, Speech, and Signal Processing May 12-15, 1998, Washington State Convention and Trade Center, Seattle, Washington (USA) Ergonomic Workplace Design for Health, Wellness, and Productivity CRC Press Even with today's mobile technology, most work is still undertaken in a physical workplace. Today's workplaces need to be healthy environments that minimize the risks of illnesses or injuries to occupants to compete in the marketplace. This necessitates the application of good ergonomics design principles to the creation of effective workplaces, and this is the focus of this book. This book will: · Focus on ergonomic design for better health and ergonomic design for better productivity · Presents environments that support new ways of working and alternative workplace strategies, as well as the impacts of new technologies · Covers the role of ergonomics design in creating sustainable workplaces · Includes ergonomics design for a wide variety of workplaces, from offices to hospitals, to hotels to vehicles, etc... · Shows the design principles on how to design and create a healthy and productive workplace The market lacks an ergonomics design book that covers the topics that this book will cover. This book summarizes design principles for practitioners, and applies them to the variety of workplace settings described in the book. No other book currently on the market does that. Acoustics Today Building Acoustics CRC Press Avoid Costly Mistakes for Specialists and Non-Specialists Alike Bad acoustics in buildings is a nuisance that is not dealt with easily. The problem applies just as much to open-plan offices and restaurants and to production facilities and transportation stations as it does to performance halls, not to mention homes. It does not merely affect oral communication or enjoyment of music but has quite profound consequences on well-being. Gives Guidance on What to Expect from Design Teams and Contractors Building Acoustics is devoted to practical building and room acoustics, illustrated by numerous examples. It introduces the basics for the different specialists in a design team and for the client and sets out the issues for shared consideration. It guides them in the drawing up of sensible acoustic specifications. It is written for non-specialists and gives an outline of potential problems. It also shows what to consider before the construction stage. It empowers its readers to express their needs to a specialist consultant and to avoid the worst pitfalls. Covers interactions between acoustics and other disciplines Shows through numerous real-life examples the route to understanding and solving the problem Illustrates various points of views through real projects Acoustics of Materials BoD - Books on Demand This book deals with acoustic wave interaction with different materials, such as porous materials, crystals, biological tissues, nanofibers, etc. Physical phenomena and mathematical models are described, numerical simulations and theoretical predictions are compared to experimental data, and the results are discussed by evoking new trends and perspectives. Several approaches and applications are developed, including non-linear elasticity, propagation, diffusion, soundscape, environmental acoustics, mechanotransduction, infrasound, acoustic beam, microwave sensors, and insulation. The book is composed of three sections: Control of Sound - Absorbing Materials for Damping of Sound, Sound Propagation in Complex/Porous materials and Nondestructive Testing (NDT), Non Linearity, Leakage. Building Performance Evaluation From Delivery Process to Life Cycle Phases Springer The main aim of this book is to present an intriguing retrospective of Building Performance Evaluation (BPE) as it evolved from Post-Occupancy Evaluation (POE) over the past 25 years. On one hand, this is done by updating original authors' chapter content of Building Evaluation, the first edition published in 1989. That, in turn, is augmented by an orientation toward current and future practice on the other, including new authors who are engaged in ongoing, cutting edge projects. Therefore, individual, methodology oriented chapters covering the fundamental principles of POE and BPE go along with major thematic chapters, topics of which like sustainability or integration of new technologies are addressed in a diversity of case studies from around the globe. Research, methodologies, and framework of POEs continue to evolve. POEs are one step, on the larger scale of BPE, in understanding how buildings function after they are occupied. This resource helps architects, building owners, and facility managers understand the implications and reactions to the facilities that they designed, built and/or commissioned. By considering the whole process from conception to future uses of the building, there can be a more holistic approach to the planning, programming, design, construction, occupancy, and future adaptability of the structure. This book is dedicated to first editor Wolfgang F. E. Preiser who passed away during the process of editing and reviewing chapters of this volume. Communication Acoustics An Introduction to Speech, Audio and Psychoacoustics John Wiley & Sons This book aims to convey to engineering students and researchers alike the relevant knowledge about the nature of acoustics, sound and hearing that will enable them to develop new technologies in this area through acquiring a thorough understanding of how sound and hearing works. There is currently no technical book available covering the communication path from sound sources through medium to the formation of auditory events in the brain - this book will fill this gap in the current book literature. It discusses the multidisciplinary area of acoustics, hearing, psychoacoustics, signal processing, speech and sound quality and is suitable for use as a main course textbook for senior undergraduate and graduate courses related to audio communication systems. It covers the basics of signal processing, traditional acoustics as well as the human hearing system and how to build audio techniques based on human hearing resolution. It discusses the technologies and applications for sound synthesis and reproduction, and for speech and audio quality evaluation. The employment on Offshore Drilling Platforms COMPLETE eBook Petrogav International This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry. The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. As a BONUS this eBook contains web addresses to 306 video movies for a better understanding of the technological process and 197 web addresses to recruitment companies where you may apply for a job. Social Psychology Australian & New Zealand Edition Cengage AU Using a balanced approach, Social Psychology, 2e connects social psychology theories, research methods, and basic findings to real-world applications with a current-events emphasis. Coverage of culture and diversity is integrated into every chapter in addition to strong representation throughout of regionally relevant topics such as: Indigenous perspectives; environmental psychology and conservation; community psychology; gender identity; and attraction and close relationships (including same-sex marriage in different cultures, gendered behaviours when dating, and updated data on online dating), making this visually engaging textbook useful for all social psychology students. Proceedings of the 18th International Symposium on Advancement of Construction Management and Real Estate Springer The Chinese Research Institute of Construction Management (CRIOCM) in collaboration with Xi'an Jiaotong University proudly invites all academics, researchers and professionals to participate in the CRIOCM 2013, the 18th International Symposium on "Advancement of Construction Management and Real Estate". We will uphold and preserve the idea and tradition of pragmatism and innovation, to offer an excellent academic and communication platform for academics and professionals to exchange information on the latest developments in real estate and construction management. The employment on Offshore Drilling Rigs COMPLETE eBook Petrogav International This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry. The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. As a BONUS this eBook contains web addresses to 304 video movies for a better understanding of the technological process and 187 web addresses to recruitment companies where you may apply for a job. Architecture & Sustainable Development (vol.1) 27th International Conference on Passive and Low Energy Architecture Presses univ. de Louvain This book of Proceedings presents the latest thinking and research in the rapidly evolving world of architecture and sustainable development through 255 selected papers by authors coming from over 60 countries. Lighting at Work Health and Safety Executive (Hse) This guidance explains how lighting can contribute to the health and

safety of people at work. Aimed at those responsible for health and safety at work, it deals with managing the health and safety risks from lighting in the workplace; good practice and lighting recommendations. Job interview questions and answers for employment on Offshore Drilling Platforms Petrogav International The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. Since these questions are so common, hiring managers will expect you to be able to answer them smoothly and without hesitation. This eBook contains ... questions and answer for job interview and as a BONUS ... links to video movies and web addresses torecruitment companies where you may apply for a job. This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry. 1997 IEEE International Conference on Acoustics, Speech, and Signal Processing April 21-24, 1997, Munich, Germany Job interview questions and answers for employment on Offshore Drilling Platforms Petrogav International The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. Since these questions are so common, hiring managers will expect you to be able to answer them smoothly and without hesitation. This eBook contains 272 questions and answers for job interview and as a BONUS 289 links to video movies and web addresses to 205 recruitment companies where you may apply for a job. This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry. Acoustic Microscopy Fundamentals and Applications John Wiley & Sons This only and up-to-date monograph on this versatile method covers its use in a range of applications spanning the fields of physics, materials science, electrical engineering, medicine, and research and industry. Following an introduction, the highly experienced author goes on to investigate acoustic field structure, output signal formation in transmission raster acoustic microscopes and non-linear acoustic effects. Further chapters deal with the visco-elastic properties and microstructure of the model systems and composites used, as well as polymer composite materials and the microstructure and physical-mechanical properties of biological tissues. A handy reference for materials scientists, electrical engineers, radiologists, laboratory medics, test engineers, physicists, and graduate students. How to get a job on Offshore Drilling Rigs Petrogav International This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry. The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. 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The technological process on Offshore Drilling Rigs explained step by step Petrogav International This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry. The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. As a BONUS this eBook contains web addresses to 293 video movies for a better understanding of the technological process and 196 web addresses to recruitment companies where you may apply for a job. Night Noise Guidelines for Europe WHO Regional Office Europe The WHO Regional Office for Europe set up a working group of experts to provide scientific advice to the Member States for the development of future legislation and policy action in the area of assessment and control of night noise exposure. The working group reviewed available scientific evidence on the health effects of night noise, and derived health-based guideline values. In December 2006, the working group and stakeholders from industry, government and nongovernmental organizations reviewed and reached general agreement on the guideline values and key texts for the final document of the "Night noise guidelines for Europe". Considering the scientific evidence on the thresholds of night noise exposure indicated by "L_{night,outside}" [L suffix night,outside] as defined in the Environmental Noise Directive (2002/49/EC), an L_{night, outside} of 40 dB should be the target of the night noise guideline (NNG) to protect the public, including the most vulnerable groups such as children, the chronically ill and the elderly. "L_{night,outside}" value of 55 dB is recommended as an interim target for the countries where the NNG cannot be achieved in the short term for various reasons, and where policy-makers choose to adopt a stepwise approach. These guidelines are applicable to the Member States of the European Region, and may be considered as an extension to, as well as an update of, the previous WHO "Guidelines for community noise" (1999). [Ed.] Work Psychology Psychology Press Volume two of a four volume set. This second edition has been extensively rewritten and should be of interest to both practitioners and students of organizational psychology.