

Perceived acoustic environment, work performance and well-being - survey results from Finnish offices

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ABSTRACT

The aim of the study was to investigate workers' perceptions of the acoustic environment of offices and study its relations to work performance and well-being. Questionnaire results from 11 companies and 689 respondents were analyzed. Occupants in private rooms and open offices were compared. Noise was the main indoor environmental problem in open offices. Speech was the most distracting source of noise in both office types but the degree of disturbance was lower in private rooms. About half of open office occupants and 20 % of occupants in private rooms were dissatisfied with acoustics. Office noise disturbed particularly conversations and tasks relying on working memory and verbal processes, such as text comprehension and creative thinking. Routine tasks were little disturbed by noise. In open offices, attempts to cope with noise reflected risk factors to individual productivity and well-being, such as taking extra breaks, compromising the quality of work, working overtime and exerting oneself harder. Self-estimated waste of daily working time due to noise was twofold in open offices. Open office workers experienced more stress symptoms, particularly overstrain and difficulties in concentration, and attributed these symptoms to office noise to a greater extent than workers in private rooms. Possibilities to influence issues related to one's work and work-space privacy were lower among open office occupants. The results suggests that private rooms are superior to open offices in all respects.

INTRODUCTION

There is an increasing worldwide trend to build open offices instead of private room offices. Open offices are preferred because of better space economy, spaciousness and flexibility. Open offices are also assumed to facilitate teamwork and information sharing. However, there is continuous debate on the positive and negative effects of open offices on work performance and well-being. According to a meta-analysis carried out by DeCroon et al. (2005), there is strong evidence that working in open offices reduces worker's psychological privacy and job satisfaction. Some evidence exists that cognitive workload increases in open offices.

Cross-sectional office surveys that have compared different office lay-outs, e.g. Becker et al. (1983), Danielsson (2005), Pejtersen et al. (2006) and Jensen et al. (2005), have shown that the most severe factor causing office dissatisfaction is noise. Danielsson (2005) compared several office lay-outs and concluded that dissatisfaction with noise and privacy was highest in large open offices and lowest in cellular offices. Pejtersen et al. (2006) found that the percentage of occupants complaining about noise was ten-fold in large open offices compared to cellular offices. The same study demonstrated an association between office size and several symptoms, including fatigue, headache and difficulties in concentration. Open office occupants

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Architectural Acoustics Illustrated Michael Ermann, 2015-01-16 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

Acoustic Textiles Rajiv Padhye, Rajkishore Nayak, 2016-10-26 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

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

Sick Building Syndrome Sabah A. Abdul-Wahab, 2011-05-03 This volume throws light on the Sick Building Syndrome in Libraries and other public buildings and the extent to which it is influenced by the internal environment of libraries One of the signs of this disease is that the person suffers from a set of symptoms closely related to his/her presence in the building without the identification of any clear causes and his/her relief of these symptoms when he/she is out of the building Hence the book sheds on the extent to which the interior environment impacts upon the health of the people and the extent to which this is reflected in their performance The book can be used for teaching research and professional reference It concludes with the recommendation that it is essential to observe environmental dimensions when designing library and public buildings taking into consideration the expected impact of SBS in library and public buildings on people The significance of the book derives from the fact that it is the first of its kind to examine the issue of the interior environment and SBS of library and public building worldwide

Industrial Ventilation Design Guidebook: Volume 1 Howard D. Goodfellow, Risto Kosonen, 2020-07-24 The fully revised and restructured two volume 2nd edition of the Industrial Ventilation Design Guidebook develops a systematic approach to the engineering design of industrial ventilation systems and provides engineers guidance on how to implement this state of the art ventilation technology on a global basis Volume 1 Fundamentals features the latest research technology in the broad field of ventilation for contaminant control including extensive updates of the foundational chapters from the previous edition With major contributions by experts from Asia Europe and North America in the global industrial ventilation field this new edition is a valuable reference for consulting engineers working in the design of air pollution and sustainability for their industrial clients processing and manufacturing as well as mechanical process and plant engineers looking for design methodologies and advice on sensors and control algorithms for specific industrial operations so they can meet challenging targets in the low carbon economy Presents practical designs for different types of industrial systems including descriptions and new designs for ducted systems Discusses the basic processes of air and containment movements such as jets plumes and boundary flows inside ventilated spaces Introduces the new concept of target levels in the systematic design methodology such as assessing target levels for key parameters of industrial air technology and the hierarchy of different target levels Provides future directions and opportunities in the industrial design field

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