

Guidelines for acoustical measurements inside historical opera houses

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1. Introduction

The present document is the result of the coordination of a group of international specialists in the field of room acoustics, and contains the experiences and suggestions of its members on the procedures of measurement inside historical opera houses. The final objective of the action is to elaborate a complete methodology which might start with the measurement of raw acoustical data according with the state-of-the-art techniques and end with the definition/selection of the suitable parameters to fully describe the acoustic field inside these places.

The following points will focus the whole procedure into:

- 1) Definition of the measurement procedures, regarding the setup of the theatre and the positions of sound sources and receivers;
- 2) Choice of measurement methodology and of the measurement chain;
- 3) Definition of a set of objective acoustical parameters;
- 4) Definition of the criteria for cataloguing and presenting the results.

The document, at the present stage, will then treat steps number one and two since the remaining are still under discussion.

The procedures indicated in the next paragraphs are partly well established and partly only recently proposed. The guidelines are undergoing a validation procedure in dedicated sessions of measurements.

2. Measurement procedures

The most important normative reference for measurements of the kind here considered is the norm ISO3382[2]; the present procedures integrate the norm in some respects and specialize the approach to historical theatres. The goal of the campaign is to characterize the theatres for the destination they were conceived for, that is for executions of opera even if, as known, they currently house different kinds of events like symphonic and small ensemble concerts or recitals.

2.1 Setups of the opera house

To characterize the theatre for opera it is necessary to investigate three systems: the hall (which contains the audience subdivided into stalls, boxes and gallery), the stage (where the action takes place) and the third system which is the sum of both the stage and the hall. The importance of the acoustics of the stage has been underlined by many authors (as in [3] and [4]) and is common experience of the performers, especially if singers, who know all acoustical merits and faults of the stage due to their familiarity to this place.

The three systems can be described, from the acoustical point of view, considering two setups of the theatre, which will be prepared before the measurements take place and will be maintained during the session. A brief description of the two setups can be as follows:

- A. Hall and stage coupled: the orchestra pit, which can be found in almost all the historical theatres, is lowered in the configuration usually employed for opera. The stage is in the full length and does not contain any scenery. To simulate the

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Guidelines For Acoustical Measurements Inside Historical:

Historical Acoustics Francesco Aletta, Jian Kang, 2020-04-15 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 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 [A Century of Excellence in Measurements, Standards, and Technology](#) David R. Lide, 2018-02-06 Established by Congress in 1901 the National Bureau of Standards NBS now the National Institute of Standards and Technology NIST has a long and distinguished history as the custodian and disseminator of the United States standards of physical measurement Having reached its centennial anniversary the NBS NIST reflects on and celebrates its first century with this book describing some of its seminal contributions to science and technology Within these pages are 102 vignettes that describe some of the Institute s classic publications Each vignette relates the context in which the publication appeared its impact on science technology and the general public and brief details about the lives and work of the authors The groundbreaking works depicted include A breakthrough paper on laser cooling of atoms below the Doppler limit which led to the award of the 1997 Nobel Prize for Physics to William D Phillips The official report on the development of the radio proximity fuse one of the most important new weapons of World War II The 1932 paper reporting the discovery of deuterium in experiments that led to Harold Urey s 1934 Nobel Prize for Chemistry A review of the development of the SEAC the first digital computer to employ stored programs and the first to process images in digital form The first paper demonstrating that parity is not conserved in nuclear physics a result that shattered a fundamental concept of theoretical physics and led to a Nobel Prize for T D Lee and C Y Yang Observation of Bose Einstein Condensation in a Dilute Atomic Vapor a 1995 paper that has already opened vast new areas of research A landmark contribution to the field of protein crystallography by Wlodawer and coworkers on the use of joint x ray and neutron diffraction to determine the structure of proteins **Digital Cultural Heritage** Horst Kremers, 2019-06-21 This book provides an overview of various application spheres and supports further innovations needed in information management and in the processes of knowledge generation The professions organizations and scientific associations involved are unusually challenged by the complexity of the data situation Cartography has always been the central field of application for georeferencing digital cultural heritage DCH objects It is particularly important in enabling spatial relation analysis between any number of DCH objects or of their granular details In addition to the pure geometric aspects the cognitive

relations that lead to knowledge representation and derivation of innovative use processes are also of increasing importance. Further, there is a societal demand for spatial reference and analytics e.g. the extensive use of cognitive concepts of map and atlas for a variety of social topics in the media. There is a huge geometrical logical cognitive potential for complex multimedia digital cultural heritage databases and stakeholders expect handling transmission and processing operations with guaranteed long term availability for all other stakeholders. In the future, whole areas of digital multimedia databases will need to be processed to further our understanding of historical and cultural contexts. This is an important concern for the information society and presents significant challenges for cartography in all these domains. This book collects innovative technical and scientific work on the entire process of object digitization including detail extraction, archiving and interoperability of multimedia DCH data.

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Vibration and Shock Handbook Clarence W. de Silva, 2005-06-27. Every so often a reference book appears that stands apart from all others destined to become the definitive work in its field. The Vibration and Shock Handbook is just such a reference. From its ambitious scope to its impressive list of contributors, this handbook delivers all of the techniques, tools, instrumentation and data needed to model, analyze, monitor, modify and control vibration, shock, noise and acoustics. Providing convenient, thorough, up-to-date and authoritative coverage, the editor summarizes important and complex concepts and results into snapshot windows to make quick access to this critical information even easier. The Handbook's nine sections encompass fundamentals and analytical techniques, computer techniques, tools and signal analysis, shock and vibration methodologies, instrumentation and testing, vibration suppression, damping and control, monitoring and diagnosis, seismic vibration and related regulatory issues, system design, application and control, implementation and acoustics.

and noise suppression The book also features an extensive glossary and convenient cross referencing plus references at the end of each chapter Brimming with illustrations equations examples and case studies the Vibration and Shock Handbook is the most extensive practical and comprehensive reference in the field It is a must have for anyone beginner or expert who is serious about investigating and controlling vibration and acoustics *Vibration Damping, Control, and Design* Clarence W. de Silva, 2007-04-05 Reducing and controlling the level of vibration in a mechanical system leads to an improved work environment and product quality reduced noise more economical operation and longer equipment life Adequate design is essential for reducing vibrations while damping and control methods help further reduce and manipulate vibrations when design strat

Engineering Acoustics Malcolm J. Crocker, Jorge P. Arenas, 2021-01-11 ENGINEERING ACOUSTICS NOISE AND VIBRATION CONTROL A masterful introduction to the theory of acoustics along with methods for the control of noise and vibration In Engineering Acoustics Noise and Vibration Control two experts in the field review the fundamentals of acoustics noise and vibration The authors show how this theoretical work can be applied to real world problems such as the control of noise and vibration in aircraft automobiles and trucks machinery and road and rail vehicles Engineering Acoustics Noise and Vibration Control covers a wide range of topics The sixteen chapters include the following Human hearing and individual and community response to noise and vibration Noise and vibration instrumentation and measurements Interior and exterior noise of aircraft as well as road and rail vehicles Methods for the control of noise and vibration in industrial equipment and machinery Use of theoretical models in absorptive and reactive muffler and silencer designs Practical applications of finite element boundary element and statistical energy analysis Sound intensity theory measurements and applications Noise and vibration control in buildings How to design air conditioning systems to minimize noise and vibration Readers whether students professional engineers or community planners will find numerous worked examples throughout the book and useful references at the end of each chapter to support supplemental reading on specific topics There is a detailed index and a glossary of terms in acoustics noise and vibration

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