

Recent advances in the structural analysis and intervention criteria for historic stone masonry constructions subjected to seismic actions

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ABSTRACT:

The acknowledgment of the scientific community that the structural safety aspects of constructions belonging to the cultural heritage can not be treated according to standard procedures that are fitted for new constructions, is leading to new, specific approaches for assessing their actual structural performances and then for developing new, more appropriate methodologies and design criteria for their repair and strengthening. The basic idea is that the usual, even the most sophisticated, structural design approaches naturally imply a certain level of "over-design", and this can lead to unacceptable solutions when dealing with "existing structures" (ISO 13822). Over-designing interventions on existing structures could in fact imply in general unacceptable costs and, in the case of the historical heritage, unacceptable losses of cultural (historic, artistic) values. On this respect, the "seismic condition" presents the most delicate implications, as the very extreme resources of the structure - i.e. those connected with resistance mechanisms that are normally neglected and in any case almost impossible to include in structural models, are mobilized. Attempts to offer comprehensive methodologies to tackle such difficulties have been recently made at an international level by the ISCARSAN committee of ICOMOS and, for constructions in seismic areas, by the Italian standardisation bodies (Ministry of Culture and Ministry of Public Works). The consciousness that any calculation imply over-design has as relevant consequence that the formal match between "code requirements" and "formally demonstrated structural performances" can be misleading, and not necessarily required. Assessment is no more considered a more or less sophisticated exercise of analytical/numerical structural models, but an articulated and combined use of structural models, historical informations, surveys and investigations, personal, qualitative judgments (based on past experiences, specific training, comparisons, evaluations of past performances of a constructions) that in a "multidisciplinary" context - ensuring that all the values (economical, social, historic, artistic) of the constructions are taken into account, leads to a final decisions on if and how to intervene. Moreover, safeguarding "cultural values" implies also appropriated selection and design of the intervention materials and technologies. Attention is than paid to the possibilities offered by the traditional solutions and to their possible combinations with innovative ones.

The general aspects of the Italian approach that have been outlined, together with some case studies are presented to exemplify these guiding principles and to introduce researches on traditional and innovative techniques and methodologies, employed in historical structures, carried out at the University of Padua.

KEY WORDS: cultural heritage, historical constructions, seismic retrofitting, masonry, strengthening, upgrading, seismic vulnerability, strategies and techniques of interventions, monitoring, damage analysis, FE modelling, case studies.

1. FOREWORD

Safeguard of cultural heritage in Italy from the seismic risk regards firstly the prevention but moreover and mainly depending on the nature of the projects

and its realizations. In effect seismic assessment of existing structures can be considered a difficult task for several reasons.

After the 1976 Friuli and 1980 Irpinia earthquakes several researches were carried out, showing that in case of new constructions the behavioural models proposed by

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Advances in Analysis of Structural Masonry Subhash C. Anand, 1986 Features papers presented at the technical session Advances in Analysis of Structural Masonry at the ASCE Structures Congress 86 These papers focus on the advanced analysis techniques that are employed to predict the behavior of structural masonry *ACI Manual of Concrete Practice*, 2007

Structural Analysis of Historical Constructions Rafael Aguilar, Daniel Torrealva, Susana Moreira, Miguel A. Pando, Luis F. Ramos, 2018-08-18 This volume contains the proceedings of the 11th International Conference on Structural Analysis of Historical Constructions SAHC that was held in Cusco Peru in 2018 It disseminates recent advances in the areas related to the structural analysis of historical and archaeological constructions The challenges faced in this field show that accuracy and robustness of results rely heavily on an interdisciplinary approach where different areas of expertise from managers practitioners and scientists work together Bearing this in mind SAHC 2018 stimulated discussion on the new knowledge developed in the different disciplines involved in analysis conservation retrofit and management of existing constructions This book is organized according to the following topics assessment and intervention of archaeological heritage history of construction and building technology advances in inspection and NDT innovations in field and laboratory testing applied to historical construction and heritage new technologies and techniques risk and vulnerability assessments of heritage for multiple types of hazards repair strengthening and retrofit of historical structures numerical modeling and structural analysis structural health monitoring durability and sustainability management and conservation strategies for heritage structures and interdisciplinary projects and case studies This volume holds particular interest for all the community interested in the challenging task of preserving existing constructions enable great opportunities and also uncover new challenges in the field of structural analysis of historical and archeological constructions

ASCE Combined Index American Society of Civil Engineers, 1996 Indexes materials appearing in the Society's Journals Transactions Manuals and reports Special publications and Civil engineering

Directory of Published Proceedings, 1999 The Engineering Handbook Richard C Dorf, 2018-10-03 First published in 1995 The Engineering Handbook quickly became the definitive engineering reference Although it remains a bestseller the many advances realized in traditional engineering fields along with the emergence and rapid growth of fields such as biomedical engineering computer engineering and nanotechnology mean that the time has come to bring this standard setting reference up to date New in the Second Edition 19 completely new chapters addressing important topics in bioinstrumentation control systems nanotechnology image and signal processing electronics environmental systems structural systems 131 chapters fully revised and updated Expanded lists of engineering associations and societies The Engineering Handbook Second Edition is designed to enlighten experts in areas outside their own specialties to refresh the knowledge of mature practitioners and to educate engineering novices Whether you work in industry government or academia this is simply the best most useful engineering reference you can have in your

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