

Provisions for assessment of existing structures in the second-generation concrete Eurocode

Craig Cicco examines ways in which the second-generation of Eurocode 2 will facilitate the assessment of existing concrete-framed structures.

EN 1992-1-1 (2004) (referred to as EN 1992-1) includes additional provisions that enable it to be used for assessment of existing structures. This article outlines some of these provisions, which are likely to be of assistance when using Eurocode 2 to assess concrete-framed structures. These include:

- determining characteristic material properties for assessment;
- adjusting design loads or factors where testing is used to determine material properties;
- determining values of deterioration;
- load lifting force and anchorage lengths of bar ends;
- dealing with existing structural defects in the parent structure;
- using gross cross-sections for assessment of their resistance.

Material properties

EN 1992-1-1 (2004) requires characteristic values of material properties to assess the material resistance. Annex E provides guidance for how values for design assessment of existing structures can be determined. It requires use of **EN 1992-1-1 (2004)** to determine the characteristic concrete strength from testing. It provides a range of factors to adjust for deterioration f_{ctd} from f_{ct} , making some provision for structures where testing cannot be completed at the region being assessed. Additional

information is provided in the standard to enable characteristic values of steel strength or reinforcement to be determined from testing should steel grades used in the structure not be available from national authorities.

The UK National Annex committee is presently reviewing this factor for determining f_{ctd} from f_{ct} . It may require use of test methods to determine characteristic values to assess agreement with values obtained from **EN 1992-1-1 (2004)** with the UK National Annex, taking into account the ability to adjust design factors for material in Annex A of the new standard. It may also consider different methods of determining f_{ct} from f_{cu} where gross concrete cross-sections and the region being assessed, such as using the results of laboratory tests, have calibrated inter-relationship data, along with relevant provisions in **EN 1992-1-1 (2004)**.

Partial material factors

Annex A of the new standard provides new tables for design partial material factors to be applied based on material test results from the structure. This should generally reduce the value of these factors, when a low coefficient of variation of material strength is obtained from testing, which is beneficial for assessed members

generally. The standard permits test data available from records to also be used where suitable and appropriate.

Deterioration

Provision is made for deterioration of concrete, which is generally an issue. The aim of this provision is to allow all cases described with deterioration, but to consider reference to typical types of deterioration and their impact. It also clearly provides guidance on when assessment of reinforcement is likely to affect the provision of the test.

Plain bars

Plain bars were not covered in **EN 1992-1-1 (2004)**. The standard therefore refers to the Eurocode annex detailing reinforcement. The provisions are based on a new extended-nominal stress of plain bars that was developed during the drafting of the standard (Pohlmann et al.). The provisions also cover the variation of load resulting from variable stress levels.

Provision is made for alternative test methods that consider the issue of anchorage lengths under non-uniform load. These provisions are under development. Other established methods of assessing the bond of plain bars are available in the UK, including those listed by National Highway (2005). These may more closely with Eurocode provisions in **EN**



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Life-Cycle Civil Engineering: Innovation, Theory and Practice Airon Chen, Xin Ruan, Dan M. Frangopol, 2021-02-26 Life Cycle Civil Engineering Innovation Theory and Practice contains the lectures and papers presented at IALCCE2020 the Seventh International Symposium on Life Cycle Civil Engineering held in Shanghai China October 27 30 2020 It consists of a book of extended abstracts and a multimedia device containing the full papers of 230 contributions including the Fazlur R Khan lecture eight keynote lectures and 221 technical papers from all over the world All major aspects of life cycle engineering are addressed with special emphasis on life cycle design assessment maintenance and management of structures and infrastructure systems under various deterioration mechanisms due to various environmental hazards It is expected that the proceedings of IALCCE2020 will serve as a valuable reference to anyone interested in life cycle of civil infrastructure systems including students researchers engineers and practitioners from all areas of engineering and industry

Overview of Industry Guidance on Concrete Condition Assessment and Concrete Repair for Use Prior to Coating, 2000 This Special Publication SP introduces a brief overview of concrete repair guidance offered by the American Concrete Institute ACI International the International Concrete Repair Institute ICRI the American Concrete Pavement Association ACPA the Aberdeen Group the Portland Cement Association PCA and work by authors considered experts in the field of concrete repair The publication is divided into two parts Part I

NEHRP Commentary on the Guidelines for the Seismic Rehabilitation of Buildings Eugene Zeller, 2000-06 This document from the National Earthquake Hazards Reduction Program NEHRP was prepared for the Building Seismic Safety Council BSSC with funding from the Federal Emergency Management Agency FEMA It provides commentary on the NEHRP Guidelines for the Seismic Rehabilitation of Buildings It contains systematic guidance enabling design professionals to formulate effective reliable rehabilitation approaches that will limit the expected earthquake damage to a specified range for a specified level of ground shaking This kind of guidance applicable to all types of existing buildings in all parts of the country has never existed before Illustrated

Selected Proceedings of the 2nd International Engineering Research Symposium; IERS 2024; 14 Aug; Colombo, Sri Lanka T. Nilanthi Fernando, Manjula Siriwardhana, Ranjith Dissanayake, Meththika Vithanage, Jayathu G. Samarawickrama, Pradeep Gajanayake, 2025-03-03 This book presents selected peer reviewed articles from the 2nd International Engineering Research Symposium IERS 2024 held at Colombo in Sri Lanka under the theme of Engineering Innovations for Economic Transformation It highlights the latest advancements in engineering research innovations and technological principles aimed at driving economic changes and improvements within society and the industry IERS2024 covers the areas of Agricultural Engineering Chemical Engineering Civil Engineering Computer Science Engineering Electrical Engineering Electronics Telecommunication Engineering Mechanical Mechatronics Engineering Materials Science Engineering Manufacturing Process Engineering and other Engineering discipline relevant to the theme of IERS 2024

Ninth International

Symposium on Environmental Degradation of Materials in Nuclear Power Systems Steve Bruemmer, Peter Ford, Gary Was, 2013-10-18 This collection presents an exchange of ideas among scientists and engineers about the economic and safety concerns surrounding environmentally induced materials problems which lead to nuclear power plant outages Scientists and engineers concerned with the environmental degradation processes corrosion mechanical and radiation effects present their latest results on such topics as life extension relicensing and materials problems associated with spent fuel storage and radioactive waste disposal This collection will be of interest to utility engineers reactor vendor engineers plant architect engineers researchers concerned with materials degradation and consultants involved in design construction and operation of water reactors

Case Studies of Rehabilitation, Repair, Retrofitting, and Strengthening of Structures Mourad M. Bakhom, 2010 *ACI Manual of Concrete Practice* American Concrete Institute, 2002 Guideline for Structural Condition Assessment of Existing Buildings American Society of Civil Engineers, Structural Engineering Institute, 2000-01 Changing economic conditions concern for historic preservation emphasis on fully utilizing conveniently located structures space shortages and increasing cost of materials and products used in the construction of new buildings have resulted in a need to evaluate and more fully utilize the existing building inventory To this end this revision of the ASCE Standard Guideline for Structural Condition Assessment of Existing Buildings a replacement of ASCE 11 90 provides the design community with guidelines for assessing the structural conditions of existing buildings constructed of combinations of material including concrete masonry metals and wood It consists of an overview of preliminary and detailed assessment procedures of materials properties and test methods and of evaluation procedures for various physical conditions of the structure This information has been compiled and subjected to a consensus review and approved by the ASCE Standards Committee on Structural Condition to provide a much needed resource standards on building condition assessment for selected materials and for other areas related to the structural performance of buildings Professional engineers building owners and regulatory officials will find this Standard Guideline invaluable

Failure, Distress and Repair of Concrete Structures N. Delatte, 2009-11-24 Many concrete structures around the world have reached or exceeded their design life and are showing signs of deteriorating Any concrete structure which has deteriorated or has sustained damage is a potential hazard *Non-destructive Testing of Wisconsin Highway Bridges* Alireza Ghorbanpoor, Neal Benish, 2005 **Guide for Evaluation of Concrete Structures Prior to Rehabilitation** ACI Committee 364, 1993 **Guide for Nondestructive Evaluation Methods for Condition Assessment, Repair, and Performance Monitoring of Concrete Structures** International Concrete Repair Institute, 2009 **Report on Aging of Nuclear Power Plant Reinforced Concrete Structures** D. J. Naus, 1996 The Structural Aging Program provides the US Nuclear Regulatory Commission with potential structural safety issues and acceptance criteria for use in continued service assessments of nuclear power plant safety related concrete structures The program was organized under four task areas Program Management Materials Property Data

Base Structural Component Assessment Repair Technology and Quantitative Methodology for Continued Service Determinations Under these tasks over 90 papers and reports were prepared addressing pertinent aspects associated with aging management of nuclear power plant reinforced concrete structures Contained in this report is a summary of program results in the form of information related to longevity of nuclear power plant reinforced concrete structures a Structural Materials Information Center presenting data and information on the time variation of concrete materials under the influence of environmental stressors and aging factors in service inspection and condition assessments techniques repair materials and methods evaluation of nuclear power plant reinforced concrete structures and a reliability based methodology for current and future condition assessments Recommendations for future activities are also provided 308 refs 61 figs 50 tabs

NEHRP Guidelines for the Seismic Rehabilitation of Buildings, 1997 **Codes and Standards and Applications for Design and Analysis of Pressure Vessel and Piping Components, 1991** Robert F. Sammataro, 1991 *Repair and Renovation of Concrete Structures* Ravindra K. Dhir, M. Roderick Jones, Li Zheng, 2005 Preface Introduction Organising Committee Scientific and Technical Committee Collaborating Institutions Sponsoring Organisations with Exhibition Exhibiting Organisations Supporting Institutions Opening Paper Getting it Right From Testing Through Diagnosis to Lasting Repair **THEME 1 DEGRADATION OF CONCRETE STRUCTURES** Keynote Paper On the Role of Moisture in Degradation of Concrete Structures Condition Survey of Romanian Prestressed Concrete Bridges The Use of Air Entrainment in Bridges and Highway Structures of the USA Influence of Design and Construction Details on Localized Degradation of Concrete Structures Diagnosis and Repair of a Cement Concrete Structure A Case Study of a Residential Building Degradation of Concrete in Structures Water Treatment Infrastructure Models for Environmental Actions on Reinforced Concrete Structures Influence of Desulfurised Combustion Gases on Durability of Cooling Towers Studying the Bond Between Repair Materials and Concrete Substrate Mathematical Modelling of Strike Penetration Processes into Concrete and Sandy Barriers **THEME 2 DEVELOPMENTS IN DIAGNOSTIC TECHNIQUES** Keynote Paper Cover Concrete Evaluation The Contribution of GRP Techniques Experimental Studies and Field Measurements Cost Effective Testing of Concrete Structures Defeating Alkali Aggregate Reaction Worldwide Temperature Variations in Concrete Subjected to Cyclic Compressive Loads Consequences for Diagnostic Applications A Study About the Rehabilitation Method of Electrochemical Chloride Extraction in Brazil Loading Tests Practical Experiences Possibilities of Optical Fibre Sensors to Monitor Strength in Concrete Structures Durability of Marine and Coastal Structures The High Quality Cover and Monitoring Approach New Suggestions to Measure the Corrosion Level of Reinforcement Using Infrared Thermographic Technology Fracture Energy of Ultra High Performance Concrete Beams Using Infrared Thermographic Technology Development of an Automatic Crack Recognition System for Concrete Structures A Non Destructive Test to Measure Concrete Permeability Ultrasonic Inspection of Concrete Structure New Steps Towards Transparent Concrete On Bonding Repairing Steel Fibre Reinforced Concrete to Hardened Concrete

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