

Evaluation of Structural Integrity for High Rise Buildings Using Non-Destructive Test Method

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Abstract Concrete structure is one of the common construction materials in the world. The reliability in terms of performance, durability and cost effective are the major advantages in utilising concrete as construction material. However, due to time and workmanship, concrete is prone to deterioration. In this study, three main beam size of 400 mm x 1200 mm in size is evaluated in terms of structure integrity using Non-Destructive Test. Ultrasonic Pulse Velocity (UPV) is adapted to determine the concrete quality. For durability aspects, the utilisation of X Ray Fluorescence (XRF) with rapid carbonation kit is adapted. From this finding, one of the beams inspected is detected with poor quality. This is supported by visual for crack detection and voids in all beam. Elementary for concrete quality for all beams is confirmed using XRF and supported with carbonation kit. In conclusion, the outcome from NDT proves to determine any structure failure and factors contribute to the problem. Furthermore, the solutions to the problem can be identified.

Keywords Non Destructive Test (NDT), Ultrasonic Pulse Velocity (UPV), X Ray Fluorescence (XRF), Carbonation

1. Introduction

Nondestructive test is a method of testing existing concrete structures to assess the strength and durability of concrete structure. In the nondestructive method of testing, without loading the specimen to failure (i.e., without destructing the concrete) we can measure the strength of concrete [1, 2]. Nowadays this method has become a part of quality control process. This method of testing also helps us to investigate crack depth, micro cracks and deterioration of concrete. Nondestructive testing of concrete is a very simple method of testing but it requires skilled and experienced persons having some special knowledge to interpret and analyse test results. Various non-destructive methods of testing concrete have been developed to analyse properties of hardened concrete such as surface hardness test, rebound hammer test, penetration and pull-out techniques, dynamic or vibration test, x ray analysis and magnetic electrical method [1, 3].

Apart from that, Non-destructive testing (NDT) methods are techniques used to obtain information about the properties or internal condition of an object without damaging the object. Non-destructive testing is a descriptive term used to evaluate the materials and components in a way that protects materials from being destructive and can be used again for further investigation. In addition, NDT is a method of controlling the quality of

Non Destructive Examination In Relation To Structural Integrity

**Raman Singh, Baldev Raj, U. Kamachi
Mudali, Prabhakar Singh**



Non Destructive Examination In Relation To Structural Integrity:

Non-destructive Examination in Relation to Structural Integrity R. W. Nichols, G. J. Dau, S. Crutzen, 1989-01-01

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Non-destructive Examination in Relation to Structural Integrity International Seminar on Non-Destructive Examination in Relation to Structural Integrity. 1, 1979, Berlin, West, 1980 **International Seminar on Non-destructive Examination in Relation to Structural Integrity** , 1980 Non-Destructive Testing Standards Harold Berger, 1977 **Introduction to the Non-Destructive Testing of Welded Joints** R. Halmshaw, 1997-01-01 This second edition builds on the success of the first and covers the widespread introduction of computer technology particularly the digitisation of data into the many branches of NDT It surveys the new European CEN Standards and provisional CEN Standards on NDT many of which are replacing British Standards New NDT techniques not included in the first edition are also included Non-destructive examination in relation to structural integrity Roy W. Nichols, 1980 **Handbook of Nondestructive Evaluation 4.0** Norbert Meyendorf, Nathan Ida, Ripudaman (Ripi) Singh, Johannes Vrana, 2025-06-29 This handbook now as second edition continues to comprehensively cover the cutting edge trends and techniques essential for the integration of nondestructive evaluation NDE into the changing face of the modern industrial landscape In particular it delves into the marriage of NDE with new techniques in e g data mining and management cloud computing autonomous operation AI for data analysis and decision making as well as cyber security highlighting the potential for cyber physical controlled production and discussing the myriad possible applications across many different industries The Handbook of NDE 4 0 centers around the Industry 4 0 philosophy the next generation of industrial production encompassing all aspects of networking across all industrial areas It discusses the adaptation of existing NDE techniques to emerging new technological areas such as 3D printing via the introduction of cyber systems into the inspection and maintenance processes In addition the handbook covers topics such as the management and processing of big data with respect to real time monitoring of structural integrity and reliable inspection of individual components Remote NDE to include competence not available on site will be a potential technique to increase reliability of NDE inspections by integrating additional specialist inputs into the decision process by methods such as telepresence thereby better leveraging the scarce resources of senior inspectors into industrial inspections at multiple sites The handbook also includes non technical topics of direct relevance to leadership management and adoption of this new philosophy The handbook houses a wealth of essential information to help academics industry professionals regulatory bodies and entrepreneurs navigate through this burgeoning new field The material in this handbook is presented with the intention of ultimately improving human safety through reliable inspections and dependable maintenance of critical infrastructure

while also enhancing business value through reduced downtime affordable maintenance and talent optimization The content is positioned to inspire NDE professionals to think broadly in terms of their role as continuous value add rather than discrete decision support This second edition contains many new chapters and half of all chapters were revised from the 1st edition based on the engagement of authors through global platforms such as the ICDNT Specialist International Group on NDE 4 0 and the International conference series on NDE 4 0 **11th Advances in Reliability Technology Symposium P.**

Comer,2012-12-06 On behalf of the Organising Committee of the 11th ARTS I would like to welcome all the delegates session chairpersons and authors I particularly welcome new delegates delegates from mainland Europe and from other countries At the time of the last symposium our tenth anniversary we looked back on the growth of the symposium and the support it had received from so many people Not least was the support given by Mrs Ruth Campbell who between this symposium and the last has retired from the National Centre of Systems Reliability The Organising Committee would hereby like to acknowledge a very special debt of gratitude over many years to Ruth Our gratitude also goes to Dr A Z Keller of the University of Bradford the Organising Committee Chairman at the 10th Symposium our President for 11th ARTS and since the beginning a staunch supporter of the ARTS Our thanks go to Mme A Camino of Electricite de France for being our after dinner speaker and to Mr A J Bourne for being our keynote speaker Their speeches have been keenly anticipated Behind the symposium the detailed and hard work of the administrative staff of the National Centre of Systems Reliability continues even after it has ended Our thanks go to them particularly and to the Universities of Liverpool Manchester Institute of Science and Technology and Bradford for their consistent support to the symposium **Non-destructive Testing for Inspection of**

Bridges and Buildings Armin Mehrabi,Saman Dolati,Pranit Malla,Saman Farhangdoust,Ziad Azzi,2025-04-27 Unchecked damages and the potential for the failure of civil structures threaten public safety and can result in a significant economic impact As such buildings bridges and other structures should be inspected at short intervals to prevent the potential spread of damages and catastrophic failures To address this in addition to conventional visual inspection a variety of non destructive testing NDT methods for damage detection have been developed and practiced over the recent decades Most often however the inspectors have difficulty selecting the most applicable practical and cost effective technique for their purpose This book brings in one place the available NDT methods provides a brief technical overview for each and discusses the applicability of the methods to specific types of structures Additionally the book describes the expected damages defects and the sources in structures that use steel concrete fibre reinforced polymers FRP and timber providing guidance for the selection of the most applicable NDT method S. Chand's Basics of Civil Engineering Er. Shrikrishna A. Dhale & Er. Kiran M. Tajne, Basics of Civil Engineering is considered as one of the basic subjects for all the engineering students of all branches The contents of this book are framed in such a way that they will be useful to the technocrats who are working on the administrative positions to deal with the basic knowledge of Civil Engineering The book contains 11 chapters where every important

concept of Civil Engineering is fairly treated It throws light on the basic areas of Civil Engineering such as Structural Engineering Geotechnical Engineering Hydraulics and Irrigation Engineering Environmental Engineering Surveying and Construction Technology Thus this book is a proper blend of all these **Ultrasonic Testing of Materials** Josef Krautkrämer,Herbert Krautkrämer,2013-04-17 Nondestructive testing of solid material using ultrasonic waves for defects such as cavities nonbonding and strength variations is treated in this book from the physical fundamentals of ultrasonics and materials up to the most sophisticated methods The book is written at a level which should make it accessible to readers with some knowledge of technical mathematics Physical laws are explained in elementary terms and more sophisticated treatments are also indicated After the fundamentals instrumentation and its application is extensively reported Tricks and observations from thirty years of experience in the field are included The third part of the book presents test problems related to special materials or ranges of modern heavy industry including recent applications such as those in nuclear power plants This fourth edition features improved presentation of certain fundamental physical facts updated reports on electronic instrumentation and new applications in the nuclear and space industries **Non-Destructive Evaluation of Corrosion and Corrosion-assisted Cracking** Raman Singh,Baldev Raj,U. Kamachi Mudali,Prabhakar Singh,2019-03-06 A comprehensive text to the non destructive evaluation of degradation of materials due to environment that takes an interdisciplinary approach Non Destructive Evaluation of Corrosion and Corrosion assisted Cracking is an important resource that covers the critical interdisciplinary topic of non destructive evaluation of degradation of materials due to environment The authors noted experts in the field offer an overview of the wide variety of approaches to non destructive evaluation and various types of corrosion The text is filled with instructive case studies from a range of industries including aerospace energy defense and processing The authors review the most common non destructive evaluation techniques that are applied in both research and industry in order to evaluate the properties and more importantly degradation of materials components or systems without causing damage Ultrasonic radiographic thermographic electromagnetic and optical are some of the methods explored in the book This important text Offers a groundbreaking interdisciplinary approach to of non destructive evaluation of corrosion and corrosion assisted cracking Discusses techniques for non destructive evaluation and various types of corrosion Includes information on the application of a variety of techniques as well as specific case studies Contains information targeting industries such as aerospace energy processing Presents information from leading researchers and technologists in both non destructive evaluation and corrosion Written for life assessment and maintenance personnel involved in quality control failure analysis and R D Non Destructive Evaluation of Corrosion and Corrosion assisted Cracking is an essential interdisciplinary guide to the topic **Improving the Effectiveness and Reliability of Non-Destructive Testing** W.E. Gardner,2013-10-22 This book is concerned with the two most important aspects of the use of non destructive testing Firstly the effectiveness of procedures to detect and size the defects present irrespective of the geometry materials

involved or environment Secondly the reliability of instrumentation and personnel to perform the specified procedures Validation and certification techniques required for the justification of safe operation of a plant are also discussed Experts in industries where safety and defect detection are of paramount importance have made valuable contributions drawn from their experience to make this book essential reading for anyone responsible for safety of plant operation Illustrated throughout the book is also of interest to mechanical and structural engineers researchers and inspectors as well as being a useful reference tool for graduate students

Non destructive examination in relation to structural integrity. Proceedings of the International Seminar ; 1989 ,1991 **Non-destructive Examination in Relation to Structural Integrity ,1991** *Non-destructive Examination for Pressurised Components* R. W. Nichols,G. J. Dau,1984 **Steam Generators for Nuclear Power Plants** Jovica Riznic,2017-05-24 Steam Generators for Nuclear Power Plants examines all phases of the lifecycle of nuclear steam generators NSGs components which are essential for the efficient and safe operation of light water reactors LWRs Coverage spans the design manufacturing operation and maintenance fitness for service and long term operation of these key reactor parts Part One opens with a chapter that provides fundamental background on NSG engineering and operational experiences Following chapters review the different NSG concepts describe NSG design and manufacturing and consider the particularities of SGs for VVER reactors Part Two focuses on NSG operation and maintenance starting with an overview of the activities required to support reliable and safe operation The discussion then moves on to tubing vibration followed by the water and steam cycle chemistry issues relevant to the NSG lifecycle Finally a number of chapters focus on the key issue of corrosion in NSGs from different angles This book serves as a timely resource for professionals involved in all phases of the NSG lifecycle from design manufacturing operation and maintenance to fitness for service and long term operation It is also intended as a valuable resource for students and researchers interested in a range of topics relating to NSG lifecycle management Fulfills the need for a detailed reference on steam generators for nuclear power plants Contains comprehensive coverage of all phases of the nuclear steam generator lifecycle from design manufacturing operation and maintenance to fitness for service and long term operation in one convenient volume Presents contributions from key manufacturers and research institutes and universities

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governorate his father alexey sergeyevich nekrasov 1788 1862 was a descendant from russian landed gentry and an officer in
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