

# Concrete Repair to EN 1504

Diagnosis, Design,  
Principles and Practice



# Concrete Repair To En 1504 Diagnosis Design Principles And Practice

**fib Fédération internationale du béton**

A red circular graphic element with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the fib logo bar.

## **Concrete Repair To En 1504 Diagnosis Design Principles And Practice:**

**Concrete Repair to EN 1504** Michael Raupach, Till Büttner, 2014-05-15 The Construction Sector Is Increasingly Focused On Repair As concrete structures are maintained longer for both environmental and financial reasons the diagnosis design and selection of products and repair work all depend on the individual condition of the buildings and require specialist knowledge from everyone involved Concrete Repair to EN 1504 Diagnosis Design Principles and Practice provides relevant background and practical guidance on concrete repair This book is based on the new European Standard EN 1504 which is used as the actual basis for concrete repair works in Europe and beyond Offers a Systematic and Thorough Approach It includes both practice and theory and provides an ideal basis for understanding and designing repair works It addresses building materials deterioration mechanisms diagnosis load bearing capacity and safety repair principles and methods repair materials execution of repair works quality control inspections monitoring and maintenance and building management systems right through to building regulations and standards It also covers deterioration mechanisms of concrete and steel reinforcement diagnosis methods principles of repair and protection properties and fields of application of repair materials as well as methods of execution including quality control to EN 1504 Describes the theoretical background of corrosion and diagnosis methods which are not covered by the EN 1504 series Provides the systematics of principles and methods in detail Includes dedicated comprehensions which enables the reader to quickly access the knowledge The text provides a complete overview and is a practical resource for owners designers product suppliers testing institutes and consulting engineers as well as for students in civil engineering

**Concrete Repair to EN 1504** Michael Raupach, 2014-01-01 The Construction Sector Is Increasingly Focused On Repair As concrete structures are maintained longer for both environmental and financial reasons the diagnosis design and selection of products and repair work all depend on the individual condition of the buildings and require specialist knowledge from everyone involved Concrete Repair to EN 1504 Diagnosis Design Principles and Practice provides relevant background and practical guidance on concrete repair This book is based on the new European Standard EN 1504 which is used as the actual basis for concrete repair works in Europe and beyond Offers a Systematic and Thorough Approach It includes both practice and theory and provides an ideal basis for understanding and designing repair works It addresses building materials deterioration mechanisms diagnosis load bearing capacity and safety repair principles and methods repair materials execution of repair works quality control inspections monitoring and maintenance and building management systems right through to building regulations and standards It also covers deterioration mechanisms of concrete and steel reinforcement diagnosis methods principles of repair and protection properties and fields of application of repair materials as well as methods of execution including quality control to EN 1504 Describes the theoretical background of corrosion and diagnosis methods which are not covered by the EN 1504 series Provides the systematics of principles and methods in detail Includes dedicated comprehensions which enables the reader to quickly access the knowledge The text

provides a complete overview and is a practical resource for owners designers product suppliers testing institutes and consulting engineers as well as for students in civil engineering **Concrete Repair to EN 1504** Michael Raupach,Till Büttner,2014-05-15 The Construction Sector Is Increasingly Focused On RepairAs concrete structures are maintained longer for both environmental and financial reasons the diagnosis design and selection of products and repair work all depend on the individual condition of the buildings and require specialist knowledge from everyone involved Concrete Repair to EN 1

**Spon's Civil Engineering and Highway Works Price Book 2015** AECOM,2014-05-15 Infrastructure work is still declining although there are plans to release 1 3bn worth of road network schemes over the next few years Network rail has published plans to spend 38bn on upgrade works over the next five years Water firms are to bring forward 400m of work into this financial year Spon s Civil Engineering and Highway Works Price Book 2015 from AECOM gives costs for both general and civil engineering works and highway works and provides a full breakdown of labour plant and material elements with labour rates updated in line with the latest CIJC wage agreement Beyond prices it can be used as a comprehensive work manual for the UK s civil engineering surveying and construction business Use the access code inside the front cover of the book to get set up with internet access to this edition until the end of December 2015 We now provide SPON S Online a versatile and powerful online data viewing package which replaces the estimating software and ebook of recent years This 29th edition incorporates a comprehensive review throughout Updated to come into line with the CESSM4 structure as well as MMHW And with an expanded range of rail elements Spon's Civil Engineering and Highway Works Price

AECOM,2014-10-02 Infrastructure work is still declining although there are plans to release 1 3bn worth of road network schemes over the next few years Network rail has published plans to spend 38bn on upgrade works over the next five years Water firms are to bring forward 400m of work into this financial year Spon s Civil Engineering and Highway Works Price Book 2015 from AECOM gives costs for both general and civil engineering works and highway works and provides a full breakdown of labour plant and material elements with labour rates updated in line with the latest CIJC wage agreement Beyond prices it can be used as a comprehensive work manual for the UK s civil engineering surveying and construction business Use the access code inside the front cover of the book to get set up with internet access to this edition until the end of December 2015 We now provide SPON S Online a versatile and powerful online data viewing package which replaces the estimating software and ebook of recent years This 29th edition incorporates a comprehensive review throughout Updated to come into line with the CESSM4 structure as well as MMHW And with an expanded range of rail elements **Life Cycle**

**Analysis and Assessment in Civil Engineering: Towards an Integrated Vision** Robby Caspeelee,Luc Taerwe,Dan M. Frangopol,2018-10-15 This volume contains the papers presented at IALCCE2018 the Sixth International Symposium on Life Cycle Civil Engineering IALCCE2018 held in Ghent Belgium October 28 31 2018 It consists of a book of extended abstracts and a USB device with full papers including the Fazlur R Khan lecture 8 keynote lectures and 390 technical papers from all

over the world Contributions relate to design inspection assessment maintenance or optimization in the framework of life cycle analysis of civil engineering structures and infrastructure systems Life cycle aspects that are developed and discussed range from structural safety and durability to sustainability serviceability robustness and resilience Applications relate to buildings bridges and viaducts highways and runways tunnels and underground structures off shore and marine structures dams and hydraulic structures prefabricated design infrastructure systems etc During the IALCCE2018 conference a particular focus is put on the cross fertilization between different sub areas of expertise and the development of an overall vision for life cycle analysis in civil engineering The aim of the editors is to provide a valuable source of cutting edge information for anyone interested in life cycle analysis and assessment in civil engineering including researchers practising engineers consultants contractors decision makers and representatives from local authorities

*Industrial Polymer Applications* William R Ashcroft, 2019-03-07 *Industrial Polymer Applications* provides a comprehensive overview of the diverse properties and applications of thermoset and thermoplastic polymer technologies used routinely in the modification protection repair restoration and bonding of the main classes of industrial engineering materials such as concrete masonry wood metal rubber plastic glass and advanced ceramics The Author with extensive industrial experience in the design and development of polymeric adhesives composites concrete repair and industrial coatings materials provides a balanced perspective of the essential chemistries and technologies for each of the relevant polymeric solutions This book includes explanations as to why polymers are needed and the specific problems and key industrial application challenges that can be overcome for each class of engineering material The use of supplementary information boxes suggestions for further reading and supportive appendices including worked examples delivers an easy to understand guide of relevant industrial applications of polymers Written in an accessible way the book provides a supplementary text for undergraduates postgraduates and industrialists who have studied or are involved in chemistry polymer chemistry industrial chemistry materials science chemical engineering mechanical engineering civil engineering or corrosion engineering science and technology

*Bridge Maintenance, Safety, Management, Life-Cycle Sustainability and Innovations* Hiroshi Yokota, Dan M. Frangopol, 2021-04-20 *Bridge Maintenance Safety Management Life Cycle Sustainability and Innovations* contains lectures and papers presented at the Tenth International Conference on Bridge Maintenance Safety and Management IABMAS 2020 held in Sapporo Hokkaido Japan April 11 15 2021 This volume consists of a book of extended abstracts and a USB card containing the full papers of 571 contributions presented at IABMAS 2020 including the T Y Lin Lecture 9 Keynote Lectures and 561 technical papers from 40 countries The contributions presented at IABMAS 2020 deal with the state of the art as well as emerging concepts and innovative applications related to the main aspects of maintenance safety management life cycle sustainability and technological innovations of bridges Major topics include advanced bridge design construction and maintenance approaches safety reliability and risk evaluation life cycle management life cycle sustainability standardization

analytical models bridge management systems service life prediction maintenance and management strategies structural health monitoring non destructive testing and field testing safety resilience robustness and redundancy durability enhancement repair and rehabilitation fatigue and corrosion extreme loads and application of information and computer technology and artificial intelligence for bridges among others This volume provides both an up to date overview of the field of bridge engineering and significant contributions to the process of making more rational decisions on maintenance safety management life cycle sustainability and technological innovations of bridges for the purpose of enhancing the welfare of society The Editors hope that these Proceedings will serve as a valuable reference to all concerned with bridge structure and infrastructure systems including engineers researchers academics and students from all areas of bridge engineering

*Proceedings of the 1st Conference of the European Association on Quality Control of Bridges and Structures* Carlo Pellegrino, Flora Faleschini, Mariano Angelo Zanini, José C. Matos, Joan R. Casas, Alfred Strauss, 2021-12-11 This book gathers the latest advances and innovations in the field of quality control and improvement of bridges and structures as presented by international researchers and engineers at the 1st Conference of the European Association on Quality Control of Bridges and Structures EUROSTRUCT 2021 held in Padua Italy on August 29 September 1 2021 Contributions include a wide range of topics such as testing and advanced diagnostic techniques for damage detection SHM and AI IoT and machine learning for data analysis of bridges and structures fiberoptics and smart sensors for long term SHM structural reliability risk robustness redundancy and resilience for bridges corrosion models fatigue analysis and impact of hazards on infrastructure components bridge and asset management systems and decision making models Life Cycle Analysis retrofit and service life extension risk management protocols quality control plans sustainability and green materials Life-Cycle of Structures and Infrastructure Systems Fabio Biondini, Dan M. Frangopol, 2023-06-28 Life Cycle of Structures and Infrastructure Systems collects the lectures and papers presented at IALCCE 2023 The Eighth International Symposium on Life Cycle Civil Engineering held at Politecnico di Milano Milan Italy 2 6 July 2023 This Open Access Book contains the full papers of 514 contributions including the Fazlur R Khan Plenary Lecture nine Keynote Lectures and 504 technical papers from 45 countries The papers cover recent advances and cutting edge research in the field of life cycle civil engineering including emerging concepts and innovative applications related to life cycle design assessment inspection monitoring repair maintenance rehabilitation and management of structures and infrastructure systems under uncertainty Major topics covered include life cycle safety reliability risk resilience and sustainability life cycle damaging processes life cycle design and assessment life cycle inspection and monitoring life cycle maintenance and management life cycle performance of special structures life cycle cost of structures and infrastructure systems and life cycle oriented computational tools among others This Open Access Book provides an up to date overview of the field of life cycle civil engineering and significant contributions to the process of making more rational decisions to mitigate the life cycle risk and improve the life cycle reliability resilience and

sustainability of structures and infrastructure systems exposed to multiple natural and human made hazards in a changing climate It will serve as a valuable reference to all concerned with life cycle of civil engineering systems including students researchers practitioners consultants contractors decision makers and representatives of managing bodies and public authorities from all branches of civil engineering

**Adhesive Joints** Wulff Possart,Markus Brede,2019-02-11 A

comprehensive overview of adhesive bonding providing both basic knowledge of polymer adhesives as well as insights into their mechanical and ageing properties The book is unique in its up to date self contained summary of recent developments and in its integration of the theory synthesis and mechanical properties of adhesive joints as well as their applications Well structured throughout the first chapter introduces the initial state of adhesive joints and their formation while subsequent chapters discuss the ageing and failure as well as the weathering of adhesive joints In addition the issue of long term behavior and lifetime predictions are considered The text is rounded off by a look at future technological advances The result is an essential reference for a wide range of disciplines

**Life-Cycle of Engineering Systems: Emphasis on**

**Sustainable Civil Infrastructure** Jaap Bakker,Dan M. Frangopol,Klaas Breugel,2016-11-18 This volume contains the papers presented at IALCCE2016 the fifth International Symposium on Life Cycle Civil Engineering IALCCE2016 to be held in Delft The Netherlands October 16 19 2016 It consists of a book of extended abstracts and a DVD with full papers including the Fazlur R Khan lecture keynote lectures and technical papers from all over the world All major aspects of life cycle engineering are addressed with special focus on structural damage processes life cycle design inspection monitoring assessment maintenance and rehabilitation life cycle cost of structures and infrastructures life cycle performance of special structures and life cycle oriented computational tools The aim of the editors is to provide a valuable source for anyone interested in life cycle of civil infrastructure systems including students researchers and practitioners from all areas of engineering and industry

**Proceedings of the Joint International Conference: 10th Textile Conference and 4th Conference on Engineering and Entrepreneurship** Genti Guxho,Tatjana Kosova Spahiu,Valma Prifti,Ardit Gjeta,Eralda Xhafka,Anis Sulejmani,2024-01-09 This proceedings book encompass a wide range of significant topics within the realms of Technologies Engineering Management and Production Entrepreneurship Materials Textiles Fashion and more The book delves into various areas of Energetics exploring aspects such as power production solar power wind turbines advanced energetics technologies energy resource efficiency global warming and emissions clean and renewable energies as well as economic development global warming and environmental protections The Constructions and Transport section features discussions on numerical methods for data manipulation construction science and technology transport systems modeling of transport systems intelligent transport traffic management and safety The Materials segment addresses materials science and application biopolymers and biotechnology metallic and composite materials metallurgical engineering recycling manufacturing and processing of various materials suchas paper plastics rubber glass ceramics and more Management and

Production topics include technology management logistic and supply chain management total quality management knowledge and innovation management financial management marketing research and strategy industrial marketing operational research project management as well as information technology in enterprises e activities and e commerce The book also features an extensive section dedicated to Textiles covering textile processing and testing technological advances in the textile industry ecology and environment in textile production fiber physics and textile mechanics finishing dyeing and treatment techniques modeling and simulation smart and interactive textiles technical and protective textiles textile design fashion and garment manufacturing innovations in textile education as well as leather and footwear technologies

**Maintenance, Safety, Risk, Management and Life-Cycle Performance of Bridges** Nigel Powers, Dan M.

Frangopol, Riadh Al-Mahaidi, Colin Caprani, 2018-07-04 Maintenance Safety Risk Management and Life Cycle Performance of Bridges contains lectures and papers presented at the Ninth International Conference on Bridge Maintenance Safety and Management IABMAS 2018 held in Melbourne Australia 9-13 July 2018 This volume consists of a book of extended abstracts and a USB card containing the full papers of 393 contributions presented at IABMAS 2018 including the T Y Lin Lecture 10 Keynote Lectures and 382 technical papers from 40 countries The contributions presented at IABMAS 2018 deal with the state of the art as well as emerging concepts and innovative applications related to the main aspects of bridge maintenance safety risk management and life cycle performance Major topics include new design methods bridge codes heavy vehicle and load models bridge management systems prediction of future traffic models service life prediction residual service life sustainability and life cycle assessments maintenance strategies bridge diagnostics health monitoring non destructive testing field testing safety and serviceability assessment and evaluation damage identification deterioration modelling repair and retrofitting strategies bridge reliability fatigue and corrosion extreme loads advanced experimental simulations and advanced computer simulations among others This volume provides both an up to date overview of the field of bridge engineering and significant contributions to the process of more rational decision making on bridge maintenance safety risk management and life cycle performance of bridges for the purpose of enhancing the welfare of society The Editors hope that these Proceedings will serve as a valuable reference to all concerned with bridge structure and infrastructure systems including students

**Stati Generali del Patrimonio Industriale. 2022**

AA.VV., 2022-06-09T00:00:00+02:00 L Associazione Italiana per il Patrimonio Archeologico Industriale AIPAI in occasione dei suoi 25 anni ha promosso i Secondi Stati Generali del Patrimonio Industriale Per tracciare un bilancio ed elaborare strategie e visioni ha posto le condizioni per l'incontro tra gli addetti ai lavori e il confronto tra i molteplici ambiti operativi di ricerca e istituzionali coinvolti Ci si riuniti a Roma e a Tivoli con la consapevolezza che il primo lascito dell'et industriale siamo noi la nostra societ con i suoi pregi e le sue contraddizioni le incredibili conquiste degli ultimi secoli La risposta stata ampia e tra i numerosi contributi presentati in questo volume si possono scorgere studi e appelli buone pratiche di conservazione e

progetti di riuso percorsi culturali e azioni di valorizzazione del patrimonio intangibile Il tutto fa ben constatare che pur con impianti metodologici fortemente caratterizzati sono sempre di più le discipline che convergono sull'oggetto e sui contesti della produzione e gradualmente assimilano i principi consolidati dell'archeologia industriale Le voci di una comunità segnata dai due anni di pandemia mostrano più incisivamente il divario tra il permanere di emergenze culturali e ambientali da un lato e un'augmentata tensione al riconoscimento e al ripensamento dell'eredità industriale dall'altro Quest'ultima si conferma sia nella centralità che le memorie e la cultura industriale hanno assunto nelle strategie di ripresa dei programmi nazionali ed europei sia nelle potenzialità di riscatto sociale economico e ambientale che emergono da una declinazione aggiornata dei progetti di recupero e rigenerazione The Italian Association for Industrial Archaeological Heritage AIPAI on its 25th anniversary promoted the Second States General of Industrial Heritage In order to draw a balance sheet and elaborate strategies and visions for the near future it set the conditions for the meeting of insiders and the confrontation between the many operational research and institutional spheres involved We gathered in Rome and Tivoli with the awareness that the first legacy of the industrial age is us our society with its merits and contradictions the incredible achievements of the last centuries The response was wide ranging and among the contributions presented in large numbers one can discern in depth studies and denunciations good conservation practices and reuse projects cultural paths and actions to enhance intangible heritage All of which makes a good case for the fact that more and more disciplines even with strongly characterized methodological frameworks are converging on the object and contexts of production and are gradually assimilating the established principles of industrial archaeology The voices of a community marked by the two year pandemic show more incisively the gap between the persistence of cultural and environmental emergencies on the one hand and an increased tension to recognize and rethink industrial heritage on the other The latter is confirmed both in the centrality that industrial memories and culture have assumed in the recovery strategies of national and European programs and in the potential for social economic and environmental redemption that emerges from an updated declination of recovery and regeneration projects

**7. Kolloquium Erhaltung von Bauwerken** Technische Akademie Esslingen e.V., 2021-07-26 Die Erhaltung von Bauwerken hat bereits in vielen Bereichen eine größere Bedeutung als der Neubau Die Individualität der Bauwerke hinsichtlich Tragkonstruktion Bausubstanz Bauablauf bauliches Umfeld und Einwirkungen über die Bauteillebensdauer erlaubt hierbei keine Standardisierung sondern erfordert meist objektindividuelle Lösungen Zudem sind die Aufgaben beim Bauen im Bestand vielfältig Sie beinhalten die Bauwerksdiagnose die Instandsetzungsplanung unter Berücksichtigung aktueller Regelwerke und Rechtsprechung die Produktauswahl die Ausführung und Qualitätssicherung sowie Aspekte des Bauwerksmanagements Dies alles erfordert eine enge und frühzeitige Abstimmung zwischen Bauherren Architekten Fachplanern Behörden und Bauunternehmen Ziel der Fachtagung zum Bauen im Bestand ist der Austausch aktueller Erkenntnisse auf dem Gebiet der Erhaltung von Bauwerken Dabei sollen sowohl die Erfahrungen bei der Planung und Umsetzung von Instandsetzungsmaßnahmen

nahmen als auch der Kenntnisstand bei der Entwicklung neuer Verfahren Materialien und Untersuchungsmethoden kommuniziert werden Im Rahmen des 7 Kolloquiums Erhaltung von Bauwerken werden etwa 80 Beitr ge aus Forschung Industrie und Praxis in vier parallelen Sessions pr sentiert 1. *Fachkongress Konstruktiver Ingenieurbau* Irmgard Lochner-Aldinger, Technische Akademie Esslingen e. V., 2022-05-16 Das Berufsfeld des Konstruktiven Ingenieurbaus ist sehr vielseitig und st ndig im Wandel Neue Entwurfsmethoden digitale Fertigungsverfahren neue Werkstoffe sowie Aspekte der Kreislaufwirtschaft und Bauen im Bestand sind Themen die das Fachgebiet des Konstruktiven Ingenieurbaus derzeit bewegen Gleichzeitig flie en neue Erkenntnisse in aktualisierte Normen innovative Projekte und moderne Fertigungsverfahren ein W hrenddessen verschmelzen die Nahtstellen zwischen Entwurf Konstruktion und Umsetzung Die seit Jahrzehnten auseinanderstrebenden Disziplinen der Architektur des Bauingenieurwesens und der Bauindustrie finden zunehmend wieder zusammen Mit Fachbeitr gen ber den aktuellen Stand der Wissenschaft und Technik Industrie und Praxis neueste Entwicklungen und Trends sowie bedeutende Projekte im Konstruktiven Ingenieurbau im Stahlbeton Mauerwerks Stahl Holz Holzverbund Glas und Leichtbau im Neubau und Bestand zu Digitalisierung und BIM vom Tragwerk bis zur Geb udeh lle vom Entwurf bis zur Realisierung bietet der neue Fachkongress eine Kompetenz Plattform f r die Beratung Bemessung Pr fung berwachung und Begutachtung von Bauleistungen in der bautechnischen Gesamtplanung

*Environmental Design* fib Fédération internationale du béton, 2004-01-01 The construction industry including the concrete industry faces the transformation process from the traditional building process to the new approach sustainable construction Environmental aspects represent a key role in this process The principal importance of the environmental impact evaluation of concrete structures follows from the high amount of concrete structures built around the world every year The specific amount of harmful impacts embodied in concrete unit is in comparison with other building materials relatively small However due to the high production of concrete the final negative environmental impact of concrete structures is significant Any improvement of concrete design principles methodologies of assessment construction and demolition technologies and management of operation and use of concrete structures thus provides a very significant contribution to the general goal the achievement of a development process in the sustainable way The objective of this state of art report is provide the framework of so called environmental design to document Best Available Technology BAT for concrete structures from an environmental point of view and to summarize methodologies for environmental impact evaluation and optimization of concrete structures Although the authors of the report were from Europe and Japan it was attempted to collect information as widely as possible *Guide for Protection and Repair of Concrete Structures* FIB - International Federation for Structural Concrete, 2022-03-01 The idea of preparing a technical document for the repairs and interventions upon concrete structures goes back to the former fib COM5 Structural Service Life Aspects being the goal of the then TG5 9 After a long period of reduced activity and taking into account the reorganization of fib commissions that

meanwhile took place on June 2017 a different approach was proposed to push forward the task of TG8 1 formerly TG5 9 The new goal of TG 8 1 was to deliver a how to do guide gathering together protection repair and strengthening techniques for concrete structures Chapters are intended to provide both guidelines and case studies serving as support to the application of fib MC2020 pre normative specifications Each chapter was written by an editorial team comprising desirably at least a researcher a designer and a contractor Templates have been prepared in order to harmonize the contents and the presentation of the different methods Following the writing process chapters were reviewed by experts and after amendments by the authors they underwent a second review process by COM8 and TG3 4 members as well as by different practitioners For each protection repair and strengthening method addressed in this guide readers have a description of when to adopt it which materials and systems are required which techniques are available and what kind of equipment is needed It then presents a summary of stakeholders roles and qualifications design guidelines referring to most relevant codes and references the intervention procedure quality control measures and monitoring and maintenance activities Due to the extent of the guide it was decided to publish it as bulletin 102 addressing protection and repair methods and bulletin 103 addressing strengthening methods We would like to thank the authors reviewers and members of COM8 and TG3 4 for their work in developing this fib Bulletin which we hope will be useful for professionals working in the field of existing concrete structures especially those concerned with life cycle management and conservation activities As noted above this Bulletin is also intended to act as a background and supporting document to the next edition of the fib Model Code for Concrete Structures which is currently under development under the auspices of TG10 1 with the working title of fib Model Code 2020

**Management, Maintenance and Strengthening of Concrete Structures** fib Fédération internationale du béton, 2002-01-01 This report is the result of the work of the former FIP Commission 10 Management and strengthening of concrete structures which replaced to the former FIP Commission 10 Maintenance operation and use in 1995 The former CEB Commission V Operation and Use and in particular its Task Group 5 4 Assessment maintenance and repair also played a role in this report When in 1998 the FIP merged with the CEB to form the fib the well advanced writing was completed by a small editorial group The purpose of the report is twofold to give an overview of the issues relating to the management of concrete structures in general and to add details about assessment and remedial action as these are important technical aspects of management and maintenance systems The more general aspects of asset management are dealt with in Chapter 1 aimed at owners and decision makers Chapters 2 and 3 aimed at consultants and contractors deal with decision making in the assessment process A review of remediation techniques is given in Chapter 3 intended to help in the selection of remedial actions rather than in their execution The report also includes some significant appendices regarding load testing monitoring and fire and also special considerations related to seismic retrofitting Appendix 1 offers keywords that the various actors in this field could use for a common language

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