

Sous la direction de  
Jean-Armand Calgaro  
et Roger Lacroix

# MAINTENANCE ET RÉPARATION DES PONTS



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Ponts et chaussées

# Maintenance Reparation Des Ponts

**A.M. Sowden**



## **Maintenance Reparation Des Ponts:**

Gestion Des Ponts Great Britain. Highways Agency, Laboratoire central des ponts et chaussées, Case Studies of Rehabilitation, Repair, Retrofitting, and Strengthening of Structures Mourad M. Bakhoun, 2010 Bridge Maintenance, Safety, Management, Resilience and Sustainability Fabio Biondini, Dan M. Frangopol, 2012-06-21 Bridge Maintenance Safety Management Resilience and Sustainability contains the lectures and papers presented at The Sixth International Conference on Bridge Maintenance Safety and Management IABMAS 2012 held in Stresa Lake Maggiore Italy 8 12 July 2012 This volume consists of a book of extended abstracts 800 pp Extensive collection of revised expert papers on recent advances in bridge maintenance safety management and life cycle performance representing a major contribution to the knowledge base of all areas of the field **Une introduction à la réparation des ponts en béton** J. Paul Guyer, P.E., R.A., 2020-01-22 Conseils techniques d'introduction pour les ingénieurs civils et structurels et les gestionnaires de construction intéressés par l'inspection et la réparation des ponts en béton C'est ce qui est discuté Maintenance préventive 1 INTRODUCTION 2 REVÊTEMENT DE SURFACE 3 MAINTENANCE CONJOINTE 4 PROTECTION CATHODIQUE Réparer et renforcer 5 EXIGENCES GÉNÉRALES 6 RÉPARATION DES FISSURES 7 RÉPARATION DES CRASES 8 RÉPARATION CONJOINTE 9 PILIERS ET PAROIS 10 SIGES PONT 11 COLONNES ET PIEUX 12 STRINGERS ET FAISCEAUX 13 PONT 14 REMPLACEMENT DES MEMBRES EN BÉTON Moderniser les ponts en béton 15 METHODES GÉNÉRALES DE MISE NIVEAU 16 RENFORCER LES MEMBRES INDIVIDUELS 17 MEMBRES EN BÉTON PRÉTRESSÉS Civil Engineering Structures According to the Eurocodes Xavier Lauzin, 2017-07-19 This standard assumes that the structure after completion is used as intended in the project and subject to planned inspection and maintenance to meet the expected project lifetime and to detect any unforeseen weakness or behavior EN 13670 4.1 An important decision factor in the design of new structures and repairs to existing structures is the lifetime or expected service life This concept which is common for civil engineering works has been extended to all engineering and building works by applying the European Structural Design Codes This book tries to take stock of the inspection methodologies related to each type of civil engineering work the various pathologies of concrete structures and gives examples of the writing of reports Design, Assessment, Monitoring and Maintenance of Bridges and Infrastructure Networks Fabio Biondini, Dan M. Frangopol, 2020-08-14 Relevant advances have been accomplished by the scientific community and engineering profession in the design assessment monitoring maintenance and management of sustainable and resilient bridge structures and infrastructures These advances have been presented and discussed at The Sixth International Conference on Bridge Maintenance Safety And Management IABMAS 2012 held in Stresa Italy from 8 to 11 July 2012 <http://www.iabmas2012.org> IABMAS 2012 has been organised on behalf of the International Association for Bridge Maintenance And Safety IABMAS under the auspices of Politecnico di Milano This book collects the extended versions of selected papers presented at IABMAS 2012 and invited papers originally published in a Special Issue of Structure and

Infrastructure Engineering These papers provide significant contributions to the process of making more rational decisions in bridge design assessment monitoring and maintenance The editors would like to thank the authors for their contributions and hope that this collection of papers will represent a valuable reference for scientific research and engineering applications in the fields of design assessment monitoring and maintenance of bridges and infrastructure networks

*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

**Acceptance of Stay Cable Systems Using Prestressing Steels** fib Fédération internationale du béton, 2005-01-01 This fib Recommendation gives technical guidelines regarding design testing acceptance installation qualification inspection and maintenance of stay cable systems using prestressing steels strands wires or bars as tensile elements which can be applied internationally This Recommendation is applicable for cable stayed bridges and other suspended structures such as roofs It may also be used for hangers in arch structures and as suspension cables as appropriate This Recommendations has been formulated by an international working group comprising more than 20 experts from administrative authorities universities laboratories owners structural designers suppliers of prestressing steels and stay cable suppliers The text has been written to cover best construction practices around the world and to provide material specifications that are considered to be the most advanced available at the time of preparing this text For ease of use for client designer and cable supplier the complex content has been arranged thematically according to the system components into chapters focusing on performance characteristics requirements and acceptance criteria Requirements and comments have been specified for all parties involved in design and construction in order to aim for a uniform and high quality and durability The interfaces to the structural designer are highlighted The essential subjects are Design and detailing of stay cables including saddles and damping devices Durability requirements and corrosion protection

systems Requirements for the materials Testing requirements for the stay cables Installation tolerances qualification of companies and personnel Inspection maintenance and repair This Recommendation does not cover the technology of stay cables whose tensile elements are ropes locked coil cables etc or which consist of composite materials Nevertheless in many cases the specified performance criteria may also be applicable to these systems although numerical values given for the acceptance criteria may need to be adjusted For these systems it has been difficult to provide multiple protective layers similar to those specified for stay cables made from prestressing steel and therefore the quality of corrosion protection may not be equivalent While extradosed cables have similarities with stay cables generally agreed design and system acceptance criteria are not yet available and therefore this type of cable is not covered

Maintenance of Brick and Stone Masonry Structures A.M. Sowden, 2020-08-27 This book deals with all the tasks related to brick and stone masonry structures from the initial identification of defects and their diagnosis to their treatment and monitoring of its cost effectiveness It is written in the context of bridges and their associated retaining walls in the U K

*Strategies for testing and assessment of concrete structures guidance report* FIB – International Federation for Structural Concrete, 1998-05-01

**Bridge Maintenance** Organisation for Economic Co-operation and Development, 1981

*The Manual of Bridge Engineering* M. J. Ryall, G. A. R. Parke, J. E. Harding, 2000

Bridge type behaviour and appearance David Bennett David Bennett Associates History of bridge development Bridge form Behaviour Loads and load distribution Mike Ryall University of Surrey Brief history of loading specifications Current code specification Load distribution concepts Influence lines Analysis Professor R Narayanan Consulting Engineer Simple beam analysis Distribution coefficients Grillage method Finite elements Box girder analysis steel and concrete Dynamics Design of reinforced concrete bridges Dr Paul Jackson Gifford and Partners Right slab Skew slab Beam and slab Box Design of prestressed concrete bridges Nigel Hewson Hyder Consulting Pretensioned beams Beam and slab Pseudo slab Post tensioned concrete beams Box girders Design of steel bridges Gerry Parke and John Harding University of Surrey Plate girders Box girders Orthotropic plates Trusses Design of composite bridges David Collings Robert Benaim and Associates Steel beam and concrete Steel box and concrete Timber and concrete Design of arch bridges Professor Clive Melbourne University of Salford Analysis Masonry Concrete Steel Timber Seismic analysis of design Professor Elnashai Imperial College of Science Technology and Medicine Modes of failure in previous earthquakes Conceptual design issues Brief review of seismic design codes Cable stayed bridges Daniel Farquhar Mott MacDonald Analysis Design Construction Suspension bridges Vardaman Jones and John Howells High Point Rendel Analysis Design Construction Moving bridges Charles Birnstiel Consulting engineer History Types Special problems Substructures Peter Lindsell Peter Lindsell and Associates Abutments Piers Other structural elements Robert Broome et al WS Atkins Parapets Bearings Expansion joints Protection Mike Mulheren University of Surrey Drainage Waterproofing Protective coating systems for concrete Painting system for steel Weathering steel Scour protection Impact protection Management systems and

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 maintenance programme Prioritisation Whole life costing Risk analysis Inspection monitoring and assessment Charles  
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 evaluation tests Stages of structural assessment Preparing for recalculation Repair and Strengthening John Darby Consulting  
 Engineer Repair of concrete structures Metal structures Masonry structures Replacement of structures **Technical  
 Handbook of Bikeway Design** Claude Bernard, Robert Boivin, Laurent Moreau, Jean-François Pronovost, Vélo  
 Québec, Québec (Province). Ministère des transports, Canadian International Development Agency, Patricia Ryffranck, 1992  
*"Comportement en service entretien et réparations" rapport préliminaire de la commission IX* FIB - International  
 Federation for Structural Concrete, 1980-08-01 **Arch'01** C. Abdunur, 2001 **Annual Report of the Quebec Public  
 Service Commission** Québec (Province). Public Service Commission, 1912 Comportement en service entretien et  
 reparations. Apport de la commission IX. Relevant stages of international activity on behaviour FIB - International Federation  
 for Structural Concrete, 1984-03-01 *Civil Infrastructure Systems: Intelligent Renewal: Proceedings Of The Third  
 International Symposium* Franco Maceri, Mahendra P Singh, Pol Spanos, Fabio Casciati, 1999-01-29 A civil infrastructure  
 system CIS is better defined by its interactive effects and integration than by its individual components It transports people  
 and goods delivers clean water electric power gas and liquid fuel preserves the environment from pollution facilitates  
 communication and mitigates the impact of natural disasters Infrastructure systems are networks and or lifelines of which  
 highways airports canals dams bridges embankments mass transit and telecommunication systems etc are important  
 components The increasing demand for CIS availability while new constructions may be prevented from environmental  
 considerations and in Europe from architectural motivations requires the improvement of the existing CIS In addition recent  
 natural disasters have demonstrated the fragility of these systems and the devastating degree of socio economic loss that  
 their failure can bring These trends are common in most industrial countries All these countries are in urgent need of cost  
 effective strategies for planning design construction maintenance and retrofit of their respective CISs in order to enhance  
 and sustain the current economic prosperity into the 21st century A History of Suspension Bridges in Bibliographical  
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