



DIRECTORATE GENERAL OF HIGHWAYS
MINISTRY OF PUBLIC WORKS
REPUBLIC OF INDONESIA



AUSTRALIAN
INTERNATIONAL DEVELOPMENT
ASSISTANCE BUREAU

BRIDGE MANAGEMENT SYSTEM



BRIDGE INSPECTION MANUAL

FEBRUARY 1993



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Bridge Engineering Handbook Wai-Fah Chen, Lian Duan, 2014-01-24 Over 140 experts 14 countries and 89 chapters are represented in the second edition of the Bridge Engineering Handbook This extensive collection highlights bridge engineering specimens from around the world contains detailed information on bridge engineering and thoroughly explains the concepts and practical applications surrounding the subject Published in five books Fundamentals Superstructure Design Substructure Design Seismic Design and Construction and Maintenance this new edition provides numerous worked out examples that give readers step by step design procedures includes contributions by leading experts from around the world in their respective areas of bridge engineering contains 26 completely new chapters and updates most other chapters It offers design concepts specifications and practice as well as the various types of bridges The text includes over 2 500 tables charts illustrations and photos The book covers new innovative and traditional methods and practices explores rehabilitation retrofit and maintenance and examines seismic design and building materials The second book Superstructure Design contains 19 chapters and covers information on how to design all types of bridges What s New in the Second Edition Includes two new chapters Extradosed Bridges and Stress Ribbon Pedestrian Bridges Updates the Prestressed Concrete Girder Bridges chapter and rewrites it as two chapters Precast Pretensioned Concrete Girder Bridges and Cast In Place Post Tensioned Prestressed Concrete Girder Bridges Expands the chapter on Bridge Decks and Approach Slabs and divides it into two chapters Concrete Decks and Approach Slabs Rewrites seven chapters Segmental Concrete Bridges Composite Steel I Girder Bridges Composite Steel Box Girder Bridges Arch Bridges Cable Stayed Bridges Orthotropic Steel Decks and Railings This text is an ideal reference for practicing bridge engineers and consultants design construction maintenance and can also be used as a reference for students in bridge engineering courses Precast segmental bridges fib Fédération internationale du béton, 2017-08-01 The concept of precast segmental bridges is not new the first application documented was from the mid 1940s designed by Eugene Freyssinet and built over the river Marne near Luzancy in France between 1944 and 1946 Although innovative it also contained traditional wet concrete joints between the members The impressive breakthrough came slightly later with the introduction of match cast joints by Jean Muller first for a bridge near Buffalo USA in 1952 and later for a bridge across the River Seine at Choisy le Roi near Paris in 1962 This opened the way for a large number of new developments in terms of design production approaches and construction techniques and precast prestressed concrete segmental construction became rapidly one of the most efficient and successful bridge construction methods all over the world These developments are still evolving but the interaction between design production and construction is a critical factor for success the interaction creates opportunities to optimise the scheme but at the same time is crucial to ensure safety especially during construction when large weights are moved placed and secured frequently at substantial heights Engineers of all disciplines involved should interact during the development and realisation of precast segmental

bridge PSB schemes to conclude the optimum method statement and consequently check all the intermediate steps of the method statement in terms of stress stiffness stability production and constructability With the ongoing development of the PSB concept and consequently moving limits in terms of dimensions it was concluded to be appropriate to develop a Guide to good practice for the PSB construction method The present report was developed by an integrated team of engineers with roots in design structural engineering production and construction and provides a valuable source of knowledge experience recommendations and examples with particular emphasis on the fib Model Code for Concrete Structures 2010 and fib Bulletins 20 33 48 and 75 I would like to thank all the members of Task Group 1 7 all the individual contributors from outside Task Group 1 7 and the reviewers of the Technical Council of the fib for their contribution to this Guide to good practice In particular I would like to thank Gopal Srinivasan and Marcos Sanchez who apart from their own contributions did the final editorial work for this bulletin

Bridge Engineering Handbook, Five Volume Set Wai-Fah Chen, Lian Duan, 2014-01-24 Over 140 experts 14 countries and 89 chapters are represented in the second edition of the Bridge Engineering Handbook This extensive collection provides detailed information on bridge engineering and thoroughly explains the concepts and practical applications surrounding the subject and also highlights bridges from around the world This second edition of the bestselling Bridge Engineering Handbook covers virtually all the information an engineer would need to know about any type of bridge from planning to construction to maintenance It contains more than 2 500 tables charts and illustrations in a practical ready to use format An abundance of worked out examples gives readers numerous practical step by step design procedures Special attention is given to rehabilitation retrofit and maintenance Coverage also includes seismic design and building materials Thoroughly revised and updated this second edition contains 26 new chapters

AASHTO Guide Manual for Bridge Element Inspection, 2011 The Guide Manual for Bridge Element Inspection builds on the element level condition assessment methods developed in the AASHTO Guide for Commonly Recognized Structural Elements which it replaces Improvements have been made to fully capture the condition of the elements by reconfiguring the element language to utilize multiple distress paths within the defined condition states The multi path distress language provides the means to fully incorporate all possible defects within the overall condition assessment of the element The overall condition of an element can be utilized in this aggregate form or broken down into specific defects present as desired by the agency for Bridge Management System BMS use The Bridge Element Inspection Manual provides a comprehensive set of bridge elements that is designed to be flexible in nature to satisfy the needs of all agencies The complete set of elements capture the components necessary for an agency to manage all aspects of the bridge inventory utilizing the full capability of a BMS Publisher's website

Manual of Bridge Inspection Ohio. Department of Transportation, 2006

A Precast Substructure Design for Standard Bridge Systems Sarah Longstreth Billington, Robert W. Barnes, John Edward Breen, 1999 The proposed substructure system described in this report has been developed to improve the aesthetics and reduce the construction time

of the support structures for standard bridges The form of the proposed substructures is highly attractive and is a distinct improvement over many traditional short and medium span bridge substructures The substructure system developed is particularly well suited for precasting although the geometric form could be cast in situ Precasting would result in the increased use of high performance concrete in the substructures The use of such concrete will bring improved durability since the high performance concrete is greatly resistant to ingress of moisture and chlorides In addition the greater compressive strength of the high performance concretes is utilized for reducing the handling weight and dead load of the substructure units The bent cap units are more complex than traditional cast in place bent caps but appear feasible for plant production or large scale cast on site projects

Inspection manual for highway structures Highways Agency, 2007-06-11 Dated May 2007 This title and its companion volume 2 Inspector's handbook ISBN 9780115527982 supersede Bridge inspection guide 1984 ISBN 9780115506383 Bridge Inspection Manual Connecticut. Department of Transportation, 1985* PCI Journal, 2006 **Manual for Condition Evaluation of Bridges, 1994** American Association of State Highway and Transportation Officials. Subcommittee on Bridges and Structures, 2000 This Manual has been developed to assist Bridge Owners by establishing inspection procedures And load rating practices that meet the National Bridge Inspection Standards NBIS The Manual has been divided into seven sections with each section representing a distinct phase of an overall bridge inspection and load rating program Section 1 contains introductory and background information on the maintenance inspection of bridges as well as definitions of general interest terms Key components of a comprehensive bridge file are defined in Section 2 The record of each bridge in the file provides the foundation against which changes in physical condition can be measured Changes in condition are determined by field inspections The types and frequency of field inspections are discussed in Section 3 as well as specific inspection techniques and requirements Conditions at a bridge site may require more elaborate material tests and various testing methods are discussed in Section 4 Field load testing is a means of supplementing analytical procedures in determining the live load capacity of a bridge and for improving the confidence in the assumptions used in modeling the bridge This is described in Section 5 Section 6 discusses the load rating of bridges and includes optional rating methods The evaluation of fatigue and other special conditions are discussed in Section 7 The successful application of this Manual is directly related to the organizational structure established by the Bridge Owner Such a structure should be both effective and responsive so that the unique characteristics and special problems of individual bridges are considered in developing an appropriate inspection plan and load capacity determination

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