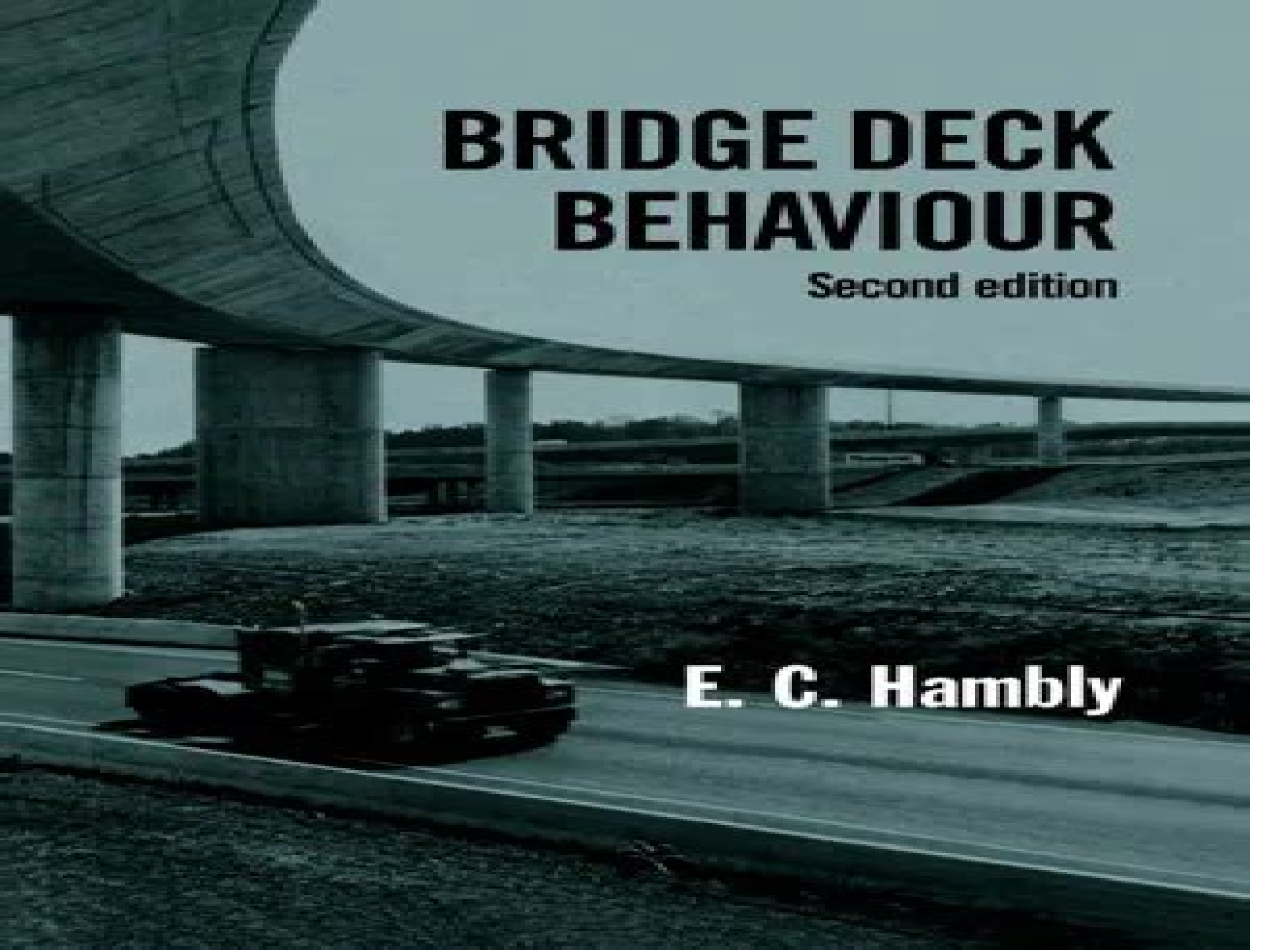




BRIDGE DECK BEHAVIOUR

Second edition

E. C. Hambly

Bridge Deck Behaviour Hambly

Michael J. Ryall



Bridge Deck Behaviour Hambly:

Bridge Deck Behaviour E C Hambly, 1991-07-25 This book describes the underlying behaviour of steel and concrete bridge decks It shows how complex structures can be analysed with physical reasoning and relatively simple computer models and without complicated mathematics

Bridge Deck Behaviour Edmund C. Hambly, 1991-01-01

Bridge Deck Behaviour, Second Edition E C Hambly, 1991-07-25 This book describes the underlying behaviour of steel and concrete bridge decks It shows how complex structures can be analysed with physical reasoning and relatively simple computer models and without complicated mathematics

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 strategies Perrie Vassie Transport Research Laboratory Inspection Assessment Testing Rate of deterioration Optimal maintenance programme Prioritisation Whole life costing Risk analysis Inspection monitoring and assessment Charles Abdunur Laboratoire Central Des Ponts et Chaussées Main causes of deterioration Investigation methods Structural 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

Concrete Bridge Designer's Manual E. Pennells, 2003-09-02 This book gives bridge engineers clear guidance on design and includes 88 data

sheets of design information charts and check lists **Bridge Deck Analysis** Damien L. Keogh, Eugene O' Brien, 2005-08-09
 The definitive text in the field of Bridge Deck behaviour and analysis Bridge Deck Analysis is an essential reference for civil and structural engineers It provides bridge designers with the knowledge to understand the behaviour of bridge decks to be familiar with and to understand the various numerical modelling techniques to know which technique is most suited The book covers the grillage analogy dedicates a chapter to the modelling and analysis of integral bridge forms and also provides guidance of the application of the finite element method *Grillage Analogy in Bridge Deck Analysis* C. S. Surana, Ramji Agrawal, 1998 This book deals with the well established computer aided method of grillage analogy as applied to analysis of bridge decks The method applicable to various types of bridge decks such as slab bridges T beam bridges and box girder bridges can handle rigid or flexible support conditions and right skew or curved plan layouts The procedure and recommendations for idealising the actual bridge decks and loadings into mathematical models are discussed Two programs given in ready to use form along with descriptions of various subroutines can analyse a variety of bridge decks accurately and obtain all the responses required in the design Their uses are explained through worked out examples These programs along with input data and exhaustive output results of all the worked out examples are also available on a diskette and can be ordered separately from the authors through the publisher This will help those who do not want to type programs from the book and run into possible risk of errors The book will be useful for the students researchers teachers designers and consultants engaged in analysing designing vetting tendering or constructing bridges *The Design of Prestressed Concrete Bridges* Robert Benaim, 2007-12-06 Examining the fundamental differences between design and analysis Robert Benaim explores the close relationship between aesthetic and technical creativity and the importance of the intuitive more imaginative qualities of design that every designer should employ when designing a structure Aiding designers of concrete bridges in developing an intu **Continuous and Integral Bridges** B. Pritchard, 1994-06-23 This book contains the invited contributions to the 1993 Henderson Colloquium organised by the British Group of IABSE International Association for Bridge and Structural Engineering It provides an international review of new techniques of designing and constructing joint free bridges an approach which is rapidly being developed and used in many parts of the world **Bridge Management** M. J. Ryall, 2001 As the emphasis in construction moves from building new bridges to maintenance and rehabilitation of existing stock bridge management is becoming an increasingly important subject Bridge Management is a comprehensive single volume book for professionals and postgraduates on bridge management It focuses on inspection assessment testing evaluation repair as well as financial aspects such as whole life costing Highly illustrated with colour and including examples of practice and techniques drawn from around the world the book will be invaluable to the bridge engineer GIVES comprehensive coverage of this important subject COVERS not only testing assessment etc but also the financial management issues HIGHLY illustrated with line drawings and photographs including colour

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