

# Precast Segmental Box Girder Bridge Manual

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Russell Nutt, Redfield, and Valentine Nigatu Chaffo Benjamin S. Pavlich United States Steel Corporation  
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at head of title national cooperative highway research program

this report provides specifications commentary and examples for the design of horizontally curved concrete  
box girder highway bridges the report details the development of the design procedures recommended load  
and resistance factor design lrfd specifications and design examples illustrating the application of the design  
methods and specifications are included in appendixes available on the trb website at trb org news blurb  
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this book explores the fundamentals of the elastic behaviour of erected precast segmental box girders sbg  
when subjected to static load as well as the construction process casting and erection work involved it  
analyzes and compares the experimental results with those obtained using the finite element method and  
theoretical calculations a short term deflection analysis for different loads is obtained by determining the  
maximum deflection stress and strain value of single span precast sbg under a variety of transversal slope the  
outcome of this work provides a better understanding of the behaviour of precast sbg in terms of structural  
responses as well as defects so that maintenance work can then be focused on the critical section at mid span  
area specifically for the bridge project longitudinally and transversely the book is of interest to industry  
professionals involved in conducting static load tests on bridges and all researchers designers and engineers  
seeking to validate experimental work with numerical and analytical approaches

laboratory tests were conducted to investigate the problem of shear key failure in multi beam prestressed box girder bridges and to propose a new shear key design failure of shear keys will typically not only compromise the load sharing mechanism between adjacent girders but also may lead to the failure of the deck waterproofing system with attendant corrosion problems the tests consisted of monitoring relative displacements occurring across intergirder joints produced by a simulated concentrated wheel load

this book reflects the practical experience the authors have gained in analyzing the box girder and the truss used in bridge engineering the straight and curved box girder bridge the truss bridge and the arch stiffened truss bridge are considered whereby bending and torsional stresses lateral buckling and vibrations are investigated the authors have established a more accurate thin walled beam theory of box girder and as an extension of the thin walled beam theory developed a theory of bending and torsion of the truss bridge many practical examples have been analyzed and from these results conclusions valuable to design practice have been deducted

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