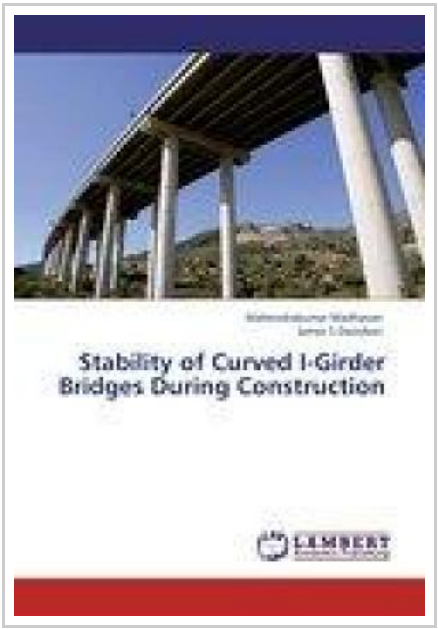

Stability of Curved I-Girder Bridges During Construction

By Mahendrakumar Madhavan

LAP Lambert Acad. Publ. Okt 2011, 2011. Taschenbuch. Book Condition: Neu. 220x150x29 mm. This item is printed on demand - Print on Demand Neuware - Curvature greatly complicates the behavior of horizontally curved steel plate girders used in bridge superstructures. The warping stress gradient across the width of I-girder flange plates reduces the vertical bending stress at which the flange plate buckles. The 2007 AASHTO Load and Resistance Factor Design Specifications eliminate the shortcomings of the 2003 AASHTO Guide Specifications for Horizontally Curved Bridges by unifying the flexural design of tangent and curved I-girder bridges. This book evaluates flange local buckling resistance based upon theoretical and analytical models that consider the effect of stress gradient across the flange coupled with the influence of rotational resistance provided by the web. The developed equations are verified using the finite element method, and the potential impact is demonstrated using the design example presented in the Guide Specifications. 476 pp. Englisch.

Reviews

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