

FOURTH EDITION

BRIDGE ENGINEERING

Design, Rehabilitation, and Maintenance of
Modern Highway Bridges



JIM J. ZHAO & DEMETRIOS E. TONIAS



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Bridge Engineering Demetrios E. Tonias, Jim J. Zhao, 2007 Aimed at US audience architects 113 000 civil engineers 228 000 and universities and colleges offering structural engineering programs This work reflects the bridge design code changes and the newest ASCE American Association of Civil Engineers design methods It uses SI units throughout for international usage

Bridge Engineering: Design, Rehabilitation, and Maintenance of Modern Highway Bridges, Fourth Edition Jim J. Zhao, Demetrios E. Tonias, 2017-04-28 Bridge engineering essentials fully updated to reflect the latest standards and regulations This thoroughly revised resource combines the latest LRFD bridge engineering standards with cutting edge maintenance and rehabilitation techniques enabling you to successfully address today s challenging infrastructure projects The book features cutting edge analysis design and construction practices along with proven cost effective maintenance and repair methods Bridge Engineering Design Rehabilitation and Maintenance of Modern Highway Bridges Fourth Edition examines the entire lifecycle of a bridge from inception design and construction to long term maintenance and management Two brand new chapters cover foundations and superstructure rehabilitation Real world case studies and hundreds of helpful photos and illustrations are also included Fully aligns with the 7th Edition of AASHTO s LRFD Bridge Design Specifications All examples and equations are presented in both S I and U S units Written by a pair of experienced civil engineers

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

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John Darby Consulting Engineer Repair of concrete structures Metal structures Masonry structures Replacement of structures *Essentials of Bridge Engineering* D. Johnson Victor, 1973 *Handbook of International Bridge Engineering* Wai-Fah Chen, Lian Duan, 2013-10-11 This comprehensive and up to date reference work and resource book covers state of the art and state of the practice for bridge engineering worldwide Countries covered include Canada and the United States in North America Argentina and Brazil in South America Bosnia Bulgaria Croatia Czech Republic Denmark Finland France Greece Macedonia **Bridge Engineering** Wai-Fah Chen, Lian Duan, 2003 **Bridge Engineering** Wai-Fah Chen, Lian Duan, 2003

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