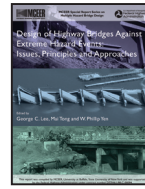


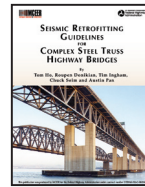
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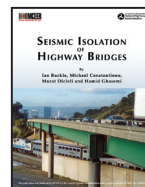
*Design of Highway Bridges Against Extreme Hazard Events: Issues, Principles and Approaches* is the first in a series dedicated to exploring the key issues and challenges facing the bridge community in developing multi-hazard design principles for highway bridges. The report's eight contributors offer perspectives from academia, private practice and government agencies, that can serve as the basis for the development of a comprehensive research agenda in this important area. MCEER-08-SP06, \$25.00



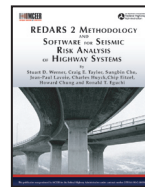
*Seismic Retrofitting Guidelines for Complex Steel Truss Highway Bridges*, by T. Ho, R. Donikian, T. Ingham, C. Seim and A. Pan, presents the state of the practice, through 2005, for retrofitting steel truss bridges in the US. A performance-based seismic retrofit philosophy is used. The guidelines cover all major aspects pertinent to the seismic retrofitting of steel truss bridges, with a focus on superstructure retrofit. Case studies are provided. These guidelines are a supplement to the 2006 FHWA *Seismic Retrofitting Manual for Highway Structures* for "unusual or "long span" steel trusses. MCEER-06-SP05, \$35.00



*Seismic Isolation of Highway Bridges*, by I.G. Buckle, M. Constantinou, M. Dicleli and H. Ghasemi, presents the principles of isolation for bridges, develops step by step methods of analysis, explains material and design issues for elastomeric and sliding isolators, and gives detailed examples of their application to standard highway bridges. The manual is a supplement to the *Guide Specifications for Seismic Isolation Design* published by AASHTO in 1999. MCEER-06-SP07, \$35.00

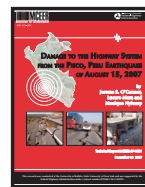


*REDARS 2: Methodology and Software for Seismic Risk Analysis of Highway Systems*, by S.D. Werner, C.E. Taylor, S. Cho, J-P. Lavoie, C. Huyck, C. Eitzel, H. Chung and R.T. Eguchi, provides the basic framework and a demonstration application of the Seismic Risk Analysis (SRA) methodology and its modules. The main modules of the REDARS 2 SRA methodology include hazards, components, system and economic. The northern Los Angeles, California highway system is used as a demonstration application of the SRA methodology. MCEER-06-SP08, \$35.00



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*Damage to the Highway System from the Pisco, Perú Earthquake of August 15, 2007*, by J.S. O'Connor, L. Mesa and M. Nykamp, MCEER-07-0021 is the product of a field investigation undertaken in September 2007 after the M 8.0 August 15, 2007 Pisco, Perú earthquake. It provides a brief description of the event and the consequential damage to the highway system. It relies heavily on government reports issued immediately after the event, including investigations from leaders in Perú's academia, and the authors' field observations. The report's purpose is to document the performance of structures designed according to AASHTO specifications and to help assess the adequacy of the standards used at the time of construction. MCEER-07-0021, \$30.00



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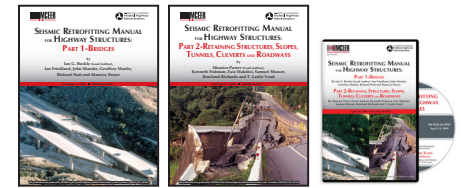
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