

Seismic Design and Retrofit of Bridges



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(Etha Pollich)

SEISMIC DESIGN AND RETROFIT OF BRIDGES



Wiley-Interscience. Hardcover. Book Condition: New. Hardcover. 704 pages. Dimensions: 9.4in. x 6.5in. x 1.6in. Because of their structural simplicity, bridges tend to be particularly vulnerable to damage and even collapse when subjected to earthquakes or other forms of seismic activity. Recent earthquakes, such as the ones in Kobe, Japan, and Oakland, California, have led to a heightened awareness of seismic risk and have revolutionized bridge design and retrofit philosophies. In *Seismic Design and Retrofit of Bridges*, three of the worlds top authorities on the subject have collaborated to produce the most exhaustive reference on seismic bridge design currently available. Following a detailed examination of the seismic effects of actual earthquakes on local area bridges, the authors demonstrate design strategies that will make these and similar structures optimally resistant to the damaging effects of future seismic disturbances. Relying heavily on worldwide research associated with recent quakes, *Seismic Design and Retrofit of Bridges* begins with an in-depth treatment of seismic design philosophy as it applies to bridges. The authors then describe the various geotechnical considerations specific to bridge design, such as soil-structure interaction and traveling wave effects. Subsequent chapters cover conceptual and actual design of various bridge superstructures, and modeling and analysis of these structures. As the basis for their design strategies, the authors focus is on the widely accepted capacity design approach, in which particularly vulnerable locations of potentially inelastic flexural deformation are identified and strengthened to accommodate a greater degree of stress. The text illustrates how accurate application of the capacity design philosophy to the design of new bridges results in structures that can be expected to survive most earthquakes with only minor, repairable damage. Because the majority of todays bridges were built before the capacity design approach was understood, the authors also devote several chapters to the seismic assessment of...



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