



Bridge Engineering Handbook

W.F. Chen, Lian Duan

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An international team of experts has joined forces to produce the Bridge Engineering Handbook. They address all facets-the planning, design, inspection, construction, and maintenance of a variety of bridge structures-creating a must-have resource for every bridge engineer. This unique, comprehensive reference provides the means to review standard practices and keep abreast of new developments and state-of-the-art practices. Comprising 67 chapters in seven sections, the authors present:

Fundamentals: Provides the basic concepts and theory of bridge engineering

Superstructure Design: Discusses all types of bridges

Substructure Design: Addresses columns, piers, abutments, and foundations

Seismic Design: Presents the latest in seismic bridge design

Construction and Maintenance: Focuses on the practical issues of bridge structures

Special Topics: Offers new and important information and unique solutions

Worldwide Practice: Summarizes bridge engineering practices around the world.

Discover virtually all you need to know about any type of bridge:

Reinforced, Segmental, and Prestressed Concrete

Steel beam and plate girder

Steel box girder

Orthotropic deck

Horizontally curved

Truss

Arch

Suspension

Cable-stayed

Timber

Movable

Floating

Railroad

Special attention is given to rehabilitation, retrofit, and maintenance, and the Bridge Engineering Handbook offers over 1,600 tables, charts, and illustrations in ready-to-use format. An abundance of worked-out examples give readers step-by-step design procedures and the section on Worldwide Practice provides a broad and valuable perspective on the "big picture" of bridge engineering.

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