



Bridge Engineering Handbook, Second Edition: Substructure Design (Volume 3)

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Published in five books: **Fundamentals, Superstructure Design, Substructure Design, Seismic Design, and Construction and Maintenance**, this new edition provides numerous worked-out examples that give readers step-by-step design procedures, includes contributions by leading experts from around the world in their respective areas of bridge engineering, contains 26 completely new chapters, and updates most other chapters. It offers design concepts, specifications, and practice, as well as the various types of bridges. The text includes over 2,500 tables, charts, illustrations and photos. The book covers new, innovative and traditional methods and practices; explores rehabilitation, retrofit, and maintenance; and examines seismic design and building materials.

The third book, **Substructure Design**, contains 11 chapters addressing the various substructure components.

What's New in the Second Edition:

- Includes new chapter: Landslide Risk Assessment and Mitigation
- Rewrites the Shallow Foundation chapter
- Rewrites the Geotechnical Consideration chapter and retitles it as: Ground Investigation

- Updates the Abutments and Retaining Structures chapter and divides it into two chapters: Abutments and Earth Retaining Structures

This text is an ideal reference for practicing bridge engineers and consultants (design, construction, maintenance), and can also be used as a reference for students in bridge engineering courses.

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Bibliography

- Sales Rank: #3070239 in Books
- Published on: 2014-01-24
- Original language: English
- Number of items: 1
- Dimensions: 10.00" h x 1.00" w x 6.90" l, 1.85 pounds
- Binding: Hardcover
- 386 pages

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Editorial Review

About the Author

Dr. Wai-Fah Chen is a research professor of civil engineering at the University of Hawaii. He earned his BS in civil engineering from the National Cheng-Kung University, Taiwan, in 1959, MS in structural engineering from Lehigh University in 1963, and PhD in solid mechanics from Brown University in 1966. His interests include constitutive modeling of engineering materials, soil and concrete plasticity, structural connections, and structural stability, and he has received several national engineering awards. In 1995, he was elected to the U.S. National Academy of Engineering. Dr. Chen has authored and coauthored more than 20 engineering books and 500 technical papers. He is editor-in-chief for the *Civil Engineering Handbook*, the *Handbook of Structural Engineering*, the *Earthquake Engineering Handbook*, and the *Handbook of International Bridge Engineering* (CRC Press).

Dr. Lian Duan is a senior bridge engineer and structural steel committee chair with the California Department of Transportation (Caltrans). He earned his diploma in civil engineering in 1975, MS in structural engineering in 1981 from Taiyuan University of Technology, China, and PhD in structural engineering from Purdue University in 1990. His interests include inelastic behavior of reinforced concrete and steel structures, structural stability, seismic bridge analysis, and design. Dr. Duan has authored and coauthored more than 70 papers, chapters, and reports, and is the coeditor of the *Handbook of International Bridge Engineering* (CRC Press). He has received several awards, including the prestigious 2001 Arthur M. Wellington Prize from the American Society of Civil Engineers.

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