



**Bridge Engineering Handbook, Five Volume Set,
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Over 140 experts, 14 countries, and 89 chapters are represented in the second edition of the **Bridge Engineering Handbook**. This extensive collection highlights bridge engineering specimens from around the world, contains detailed information on bridge engineering, and thoroughly explains the concepts and practical applications surrounding the subject.

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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