



Bridge Engineering Handbook, Five Volume Set, Second Edition: Bridge Engineering Handbook, Second Edition: Construction and Maintenance

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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 fifth book, **Construction and Maintenance** contains 19 chapters, and covers the practical issues of bridge structures.

What's New in the Second Edition:

- Includes nine new chapters: Steel Bridge Fabrication, Cable-Supported Bridge Construction, Accelerated Bridge Construction, Bridge Management Using Pontis and Improved Concepts, Bridge Maintenance, Bridge Health Monitoring, Nondestructive Evaluation Methods for Bridge Elements, Life-Cycle Performance Analysis and Optimization, and Bridge Construction Methods
- Rewrites the Bridge Construction Inspection chapter and retitles it as: Bridge Construction Supervision and Inspection
- Expands and rewrites the Maintenance Inspection and Rating chapter into three chapters: Bridge Inspection, Steel Bridge Evaluation and Rating, and Concrete Bridge Evaluation and Rating; and the Strengthening and Rehabilitation chapter into two chapters: Rehabilitation and Strengthening of Highway Bridge Superstructures, and Rehabilitation and Strengthening of Orthotropic Steel Bridge Decks

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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