

Stability Analysis and Design of Structures

M.L. Gambhir



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This advanced and graduate-level text and self-tutorial teaches readers to understand and to apply analytical design principles across the breadth of the engineering sciences.

Emphasizing fundamentals, the book addresses the stability of key engineering elements such as rigid-body assemblage, beam-column, beam, rigid frame, thin plate, arch, ring, and shell.

Each chapter contains numerous worked-out problems that clarify practical application and aid comprehension of the basics of stability theory, plus end-of-chapter review exercises.

Others key features are the citing and comparison of different national building standards, use of nondimensional parameters, and many tables with much practical data and simplified formula, that enable readers to use them in the design of structural components.

First six chapters most suitable for undergraduate-level study and remaining chapters for graduate-level courses.

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