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structural analysis as it applies to trusses, beams, and frames.

Emphases are placed on teaching readers to both model and analyze a structure. A hallmark of the book, Procedures for Analysis, has been retained in this edition to provide learners with a logical, orderly

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method to follow when applying theory. Chapter topics include types of structures and loads, analysis of statically determinate structures, analysis of statically determinate trusses, internal loadings developed in structural members, cables and arches,

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influence lines for statically determinate structures,
approximate analysis of statically indeterminate structures,
deflections, analysis of statically indeterminate structures by the force method, displacement method of analysis: slope-deflection

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equations, displacement method of analysis: moment distribution, analysis of beams and frames consisting of nonprismatic members, truss analysis using the stiffness method, beam analysis using the stiffness method, and plane frame analysis using the

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stiffness method. For individuals planning for a career as structural engineers.

Congressional Record

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frames. Emphasis is placed on teaching readers to both model and analyze a structure. Procedures for Analysis, Hibbeler's problem solving methodologies, provides readers with a logical, orderly method to follow when applying

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theory.

Structural Mechanics, has become established as a classic text on the theory of structures and design methods of structural members. The book clearly and logically presents the subject's basic

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principles, keeping the mathematical content to its essential minimum. The sixth edition has been revised to take into account changes in standards, and clarifies the content with updated design examples and a new setting

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of the text. The original simplicity of the mathematical treatment has been maintained, while more emphasis has been placed on the relevance of structural mechanics to the process of structural design, analysis, materials, and loads on

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buildings and structures according to the current British Standards and European codes of practice. The initial chapters of the book deal with the concept of loads and their effects on structural materials and elements in terms of stress and

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strain. The significance of the shape of the cross-section of structural elements is then considered. The book finishes with the design of simple structural elements such as beams, columns, rafters, portal frames, dome frames

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and gravity retaining walls.
Theory and Design