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Structural Analysis

provides readers with a clear and thorough presentation of the

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of structural analysis as

it applies to trusses,

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Emphasis is placed on

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clear and thorough
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fundamental topics of these subjects, that are often used in many engineering disciplines.

The development emphasizes the importance of satisfying equilibrium, compatibility of deformation, and material behavior requirements. The hallmark of the book, however, remains the

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and that is, strong
emphasis is placed on
drawing a free-body
diagram, and the
importance of selecting
an appropriate
coordinate system and
an associated sign
convention whenever
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mechanics are applied.

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This book provides students with a clear and thorough presentation of the theory and application of 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,

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Procedures for Analysis, has been retained in this edition to provide learners with a logical, orderly 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

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a logical, orderly 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, influence lines for statically

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indeterminate structures,
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consisting of nonprismatic members, truss analysis using the stiffness method, beam analysis using the stiffness method, and plane frame analysis using the stiffness method. For individuals planning for a career as structural engineers.

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beams, trusses and rigid
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