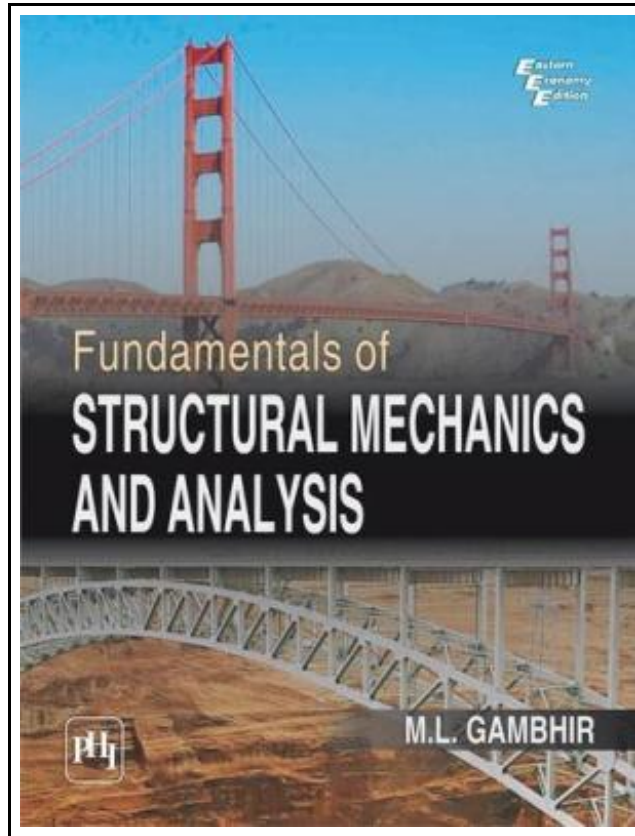


## Fundamentals of Structural Mechanics and Analysis



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Prentice-Hall of India Pvt.Ltd. Paperback. Book Condition: new. BRAND NEW, Fundamentals of Structural Mechanics and Analysis, M.L. Gambhir, This book is a comprehensive presentation of the fundamental aspects of structural mechanics and analysis. It aims to help develop in the students the ability to analyze structures in a simple and logical manner. The major thrust in this book is on energy principles. The text, organized into sixteen chapters, covers the entire syllabus of structural analysis usually prescribed in the undergraduate level civil engineering programme and covered in two courses. The first eight chapters deal with the basic techniques for analysis, based on classical methods, of common determinate structural elements and simple structures. The following eight chapters cover the procedures for analysis of indeterminate structures, with emphasis on the use of modern matrix methods such as flexibility and stiffness methods, including the finite element techniques. Primarily designed as a textbook for undergraduate students of civil engineering, the book will also prove immensely useful for professionals engaged in structural design and engineering. KEY FEATURES: More than 200 worked out examples illustrating the basic principles and solution techniques help students assimilate the underlying principles. More than 300 chapter-end exercises, with answers in many cases, test the students' grasp of the fundamental concepts. Numerous well-labelled diagrams provided throughout the book lead to easy learning. Important additional materials in the appendices allow quick reference by the readers.



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