



Structural Analysis, 11th Edition

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Structural Analysis excels in providing a clear and thorough presentation of the theory and application of structural analysis as it applies to trusses, beams and frames. Emphasis is placed on developing the ability to model and analyze a structure in preparation for professional practice. It empowers students to succeed by drawing upon Professor Hibbeler's decades of classroom experience and knowledge of how students learn.

The **11th Edition** features more content on structural modeling and approximately 30% new problems that involve applications to many different fields of engineering.

New and Updated Features

- › **Approximately 30% new problems** involve applications to many different fields of engineering.
- › **Material in select chapters** discusses modeling a structure, drawing its deflection diagram, and applying approximate methods.
- › **Structural modeling** is emphasized throughout, especially as it applies to modeling a structure for a computer analysis. Chapter 17 is expanded to discuss structural modeling in more detail.
- › **Re-written material** provides further clarification of concepts and enhanced accuracy. Important definitions are now highlighted.
- › **New photos** show how the principles apply to real-world situations and how materials behave under load.

Hallmark Features

- › **Procedures for Analysis** provide a logical, orderly method for analyzing general and specific problems.
- › **Preliminary Problems** offer students the chance to develop their problem-solving skills.
- › **Fundamental Problems** let students check their knowledge and prepare for exams. Solutions and answers are provided.
- › **Homework and Example Problems** give students multiple opportunities to apply their knowledge to realistic situations. Both SI and FPS units are used, and answers are provided for selected problems.
- › **Photographs and photorealistic art** illustrate how the principles of structural analysis are used in real-world practice.

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