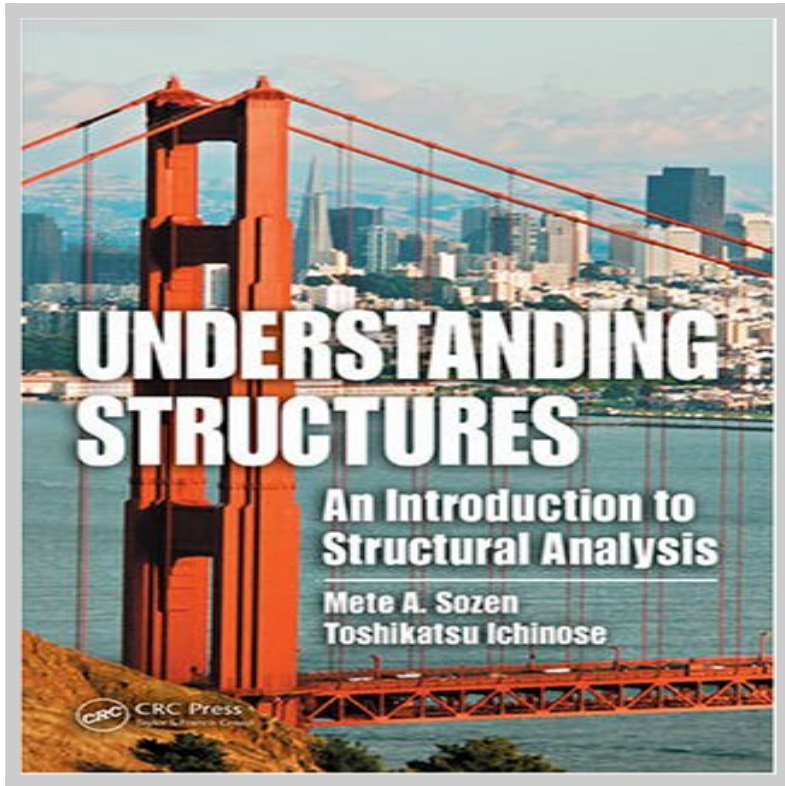


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Understanding Structures Introduction Structural Analysis Book Preview

Before structural mechanics became the common language of structural engineers, buildings were built based on observed behavior, with every new solution incurring high levels of risk. Today, the pendulum has swung in the other direction. The web of structural mechanics is so finely woven that it hides the role of experience in design, again leading to high levels of risk.

Understanding Structures brings the art and science of structures into the environment of a computer game. The book imparts a basic understanding of how buildings and bridges resist gravity, wind, and earthquake loads. Its interactive presentation of topics spans elementary concepts of force in trusses to bending of beams and the response of multistory, multi-bay frames.

Formulate Graphical and Quantitative Solutions with GOYA

The companion software, GOYA, runs easily on any java-enabled system. This interactive learning environment allows engineers to obtain quick and instructive graphical and quantitative solutions to many problems in structures.

Simulation is critical to the design and construction of safe structures. Using GOYA and the tools within **Understanding Structures**, engineers can enhance their overall understanding of structure response as well as expedite the process of safe structure design.