



## Understanding Structures: An Introduction to Structural Analysis

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By Mete A. Sozen, Toshikatsu Ichinose

CBS Publishers & Distributors Pvt. Ltd/CRC Press, 2011.  
Hardcover. Book Condition: New. Provides an understanding of structural response through numerous interactive computer simulations. Presents information in both SI and Imperial/FPS units. Uses the GOYA software to demonstrate how to reach quantitative and graphical solutions to structural response problems. Covers topics in trusses, the bending of beams, and the response of multistory, multi-bay frames. 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...



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