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This book is an introductory text on structural analysis and structural design. While the emphasis is on fundamental concepts, the ideas are reinforced through a combination of limited versatile classical techniques and numerical methods. Structural analysis and structural design including optimal design are strongly linked through design examples.

Structural Analysis Systems: Software-Hardware Capability-Compatibility-Applications, Volume 2 is a practical guidebook on structural analysis systems and their applications. It provides detailed information about a specific software, its postprocessor capabilities and limitations, computer-aided design connection, and compatibility with the most common computers. Several practical examples from industry with computer and user cost are given. This volume consists of 17 chapters and begins with a description of AFAG, a dual finite element analysis program based on the flexibility method. The discussion then turns to the AQUADYN system, designed primarily to reduce the hydrodynamics problem to a linear integral equation for large floating or immersed structures. The following chapters focus on other structural analysis computer programs such as BOSOR4 and BOSOR5, INFESA, MEF/MOSAIC, RCAFAG, and STRUGEN. Some general purpose and special purpose finite element programs used for stress analysis of composite materials are also considered. This book will be a useful resource for practitioners in scientific and industrial disciplines such as mechanical or civil engineering, informatics, applied mathematics, and computer science.

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