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Static and Dynamic Analysis of Structures: With an Emphasis on Mechanics and Computer Matrix Methods

By James F. Doyle

Kluwer Academic Publishers, United States, 1991. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book. This book is concerned with the static and dynamic analysis of structures. Specifically, it uses the stiffness formulated matrix methods for use on computers to tackle some of the fundamental problems facing engineers in structural mechanics. This is done by covering the Mechanics of Structures, its rephrasing in terms of the Matrix Methods, and then their Computational implementation, all within a cohesive setting. Although this book is designed primarily as a text for use at the upper-undergraduate and beginning graduate level, many practicing structural engineers will find it useful as a reference and self-study guide. Several dozen books on structural mechanics and as many on matrix methods are currently available. A natural question to ask is why another text? An odd development has occurred in engineering in recent years that can serve as a backdrop to why this book was written. With the widespread availability and use of computers, today's engineers have on their desktops an analysis capability undreamt of by previous generations. However, the ever increasing quality and range of capabilities of commercially available software...



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