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and application of structural analysis as it applies to trusses, beams, and frames. Emphases are placed on teaching readers to both model and analyze a structure. A hallmark of the book, Procedures for

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determinate structures,
analysis of statically
determinate trusses,
internal loadings developed
in structural members,
cables and arches, influence
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approximate analysis of
statically indeterminate
structures, deflections,
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Significant changes have occurred in the approach to structural analysis over the last twenty years. These changes have been brought about by a more general understanding of the nature

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of the problem and the
develop ment of the digital
computer. Almost all
s~ructural engineering
offices throughout the world
would now have access to
some form of digital
computer, ranging from hand-

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held programmable
calculators through to the
largest machines available.
Powerful microcomputers are
also widely available and
many engineers and students
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Problems in structural analysis have now been formulated in such a way that the solution is available through the use of the computer, largely by what is known as matrix methods of structural

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analysis. It is interesting to note that such methods do not put forward new theories in structural analysis, rather they are a restatement of classical theory in a manner that can be directly related to the

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computer. This book begins with the premise that most structural analysis will be done on a computer. This is not to say that a fundamental understanding of structural behaviour is not presented or that only

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computer-based techniques are given. Indeed, the reverse is true.

Understanding structural behaviour is an underlying theme and many solution techniques suitable for hand computation, such as moment

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distribution, are retained.
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of computer-based structural
analysis is the matrix
stiffness method.

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