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the finite

element

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thick beams,
thin and thick
plates, folded
plate
structures,
axisymmetric
shells, general
curved shells,
prismatic
structures and
three
dimensional*

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treatment of
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composite
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*approaching the
finite element
analysis of
beam, plate and
shell*

*structures for
the first time,
as well as for
practising
engineers*

*interested in
the details of
the formulation*

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*and performance
of the*

*different
finite elements
for practical
structural
analysis.*

*Significant
changes have
occurred in the
approach to
structural
analysis over*

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the last twenty years. These changes have been brought about by a more general understanding of the nature of the problem and the development of the digital computer.

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Almost all
structural

engineering
offices

throughout the
world would now
have access to

some form of
digital

computer,
ranging from
hand-held

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calculators through to the largest machines available. Powerful microcomputers are also widely available and many engineers and students have personal computers as a

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general aid to
their work.

*Problems in
structural
analysis have
now been
formulated in
such a way that
the solution is
available
through the use
of the
computer,*

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*largely by what
is known as
matrix methods
of structural
analysis. It is
interesting to
note that such
methods do not
put forward new
theories in
structural
analysis,
rather they are*

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*a restatement
of classical
theory in a
manner that can
be directly
related to the
computer. This
book begins
with the
premise that
most structural
analysis will
be done on a*

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computer. This is not to say that a fundamental understanding of structural behaviour is not presented or that only computer-based techniques are given. Indeed, the reverse is

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

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are retained.

*The most widely
used method of
computer-based
structural
analysis is the
matrix
stiffness
method.*

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struggling with
structural
analysis and*

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book shows you
the efficient
calculation of
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reactions and
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statically*

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*determined
systems.*

*Instead of
explaining all
the theoretical
basics, we
delve right
into reliably
mastering exam-
relevant tasks
with the least
possible
computing*

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