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Uses state-of-the-art computer technology to formulate displacement method with matrix algebra. Facilitates analysis of

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structural dynamics and applications to earthquake engineering and UBC and IBC seismic building codes.

Matrix Methods of Structural Analysis presents how concepts and notations of matrix algebra can be applied to arriving at general systematic approach to structure analysis. The book describes the use of

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matrix notation in structural analysis as being theoretically both compact and precise, but also, quite general. The text also presents, from the practical point of view, matrix notation as providing a systematic approach to the analysis of structures related to computer programming. Matrix algebraic methods

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are useful in repeated calculations where manual work becomes tedious. The Gauss-Seidel method and linear programming are two methods to use in solving simultaneous equations. The book then describes the notation for loads and displacements, on sign conventions, stiffness and flexibility matrices, and

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equilibrium and compatibility conditions. The text discusses the formulation of the equilibrium method using connection matrices and an alternative method. The book evaluates the compatibility method as programmed in a computer; and it discusses the analysis of a pin-jointed truss and of a rigid-jointed truss. The book

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presents some problems when using computers for analyzing structures, such as decision strategy, accuracy, and checks conducted on handling large matrices. The text also analyzes structures that behave in a non-linear manner. The book is suitable for structural engineers, physicist, civil engineers, and students of architectural

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Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Building structures are unique in the field

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of engineering, as they pose challenges in the development and conceptualization of their design. As more innovative structural forms are envisioned, detailed analyses using computer tools are inevitable. This book enables readers to gain an overall understanding of computer-aided analysis of various types of structural forms using

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advanced tools such as MATLAB®.

Detailed descriptions of the fundamentals are explained in a "classroom" style, which will make the content more user-friendly and easier to understand. Basic concepts are emphasized through simple illustrative examples and exercises, and analysis methodologies and guidelines are

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explained through numerous example problems.

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Aircraft Structures for Engineering Students, Fifth Edition, is the leading self-contained aircraft structures course text. It covers all fundamental

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subjects, including elasticity, structural analysis, airworthiness, and aeroelasticity. The author has revised and updated the text throughout and added new

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examples and exercises
using Matlab. Additional
worked examples make the
text even more
accessible by showing
the application of
concepts to airframe

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structures. The text is designed for undergraduate and postgraduate students of aerospace and aeronautical engineering. It is also

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New worked examples
throughout the text aid
understanding and relate
concepts to real world

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applications Matlab
examples and exercises
added throughout to
support use of
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analysis and design An
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design project case
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application of the major
techniques in the book
Structural Analysis
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atibility-Applications,
Volume 2 is a practical
guidebook on structural
analysis systems and
their applications. It
provides detailed
information about a

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specific software, its
postprocessor
capabilities and
limitations, computer-
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the most common

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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

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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

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hydrodynamics problem to a linear integral equation for large floating or immersed structures. The following chapters focus on other structural

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analysis computer programs such as BOSOR4 and BOSOR5, INFESA, MEF/MOSAIC, RCAFAG, and STRUGEN. Some general purpose and special purpose finite element

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programs used for stress analysis of composite materials are also considered. This book will be a useful resource for practitioners in

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scientific and
industrial disciplines
such as mechanical or
civil engineering,
informatics, applied
mathematics, and
computer science.

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Provides Step-by-Step
Instruction Structural
Analysis: Principles,
Methods and Modelling
outlines the
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analyzing engineering

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structures, and effectively presents the derivations used for analytical and numerical formulations. This text explains practical and relevant concepts, and

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lays down the foundation for a solid mathematical background that incorporates MATLAB® (no prior knowledge of MATLAB is necessary), and includes numerous

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worked examples.

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Engineering Structures
Divided into four parts,
the text focuses on the
analysis of statically
determinate structures.

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It evaluates basic concepts and procedures, examines the classical methods for the analysis of statically indeterminate structures, and explores

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the stiffness method of analysis that reinforces most computer applications and commercially available structural analysis software. In addition,

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structural engineering
undergraduates to the
essentials of structural
analysis, and serves as
a resource for students
and practicing
professionals in solving

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a range of engineering problems.

Significant changes have occurred in the approach to structural analysis over the last twenty years. These changes

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have been brought about
by a more general
understanding of the
nature of the problem
and the development of
the digital computer.
Almost all structural

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engineering offices
throughout the world
would now have access to
some form of digital
computer, ranging from
hand-held programmable
calculators through to

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

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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,

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rather they are a restatement of classical theory in a manner that can be directly related to the computer. This book begins with the premise that most

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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

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only computer-based techniques are given.

Indeed, the reverse is true. Understanding structural behaviour is an underlying theme and many solution techniques

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suitable for hand
computation, such as
moment distribution, are
retained. The most
widely used method of
computer-based
structural analysis is

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the matrix stiffness
method.

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teaches students the basic principles of structural analysis using the classical approach. The chapters are presented in a logical order, moving from an introduction of

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the topic to an analysis of statically determinate beams, trusses and rigid frames, to the analysis of statistically indeterminate structures. The text includes solved

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problems to help illustrate the fundamental concepts. Access to interactive software for analyzing plane framed structures is available for download via the texts

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online companion site. See the Features tab for more info on this software.

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key concepts, new chapters

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and discussions within existing chapters, and added reference materials in the appendix, while retaining its classroom-tested approach to helping readers navigate through

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the deep ideas, vast collection of the fundamental methods of structural analysis. The authors show how to undertake the numerous analytical methods used in

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structural analysis by focusing on the principal concepts, detailed procedures and results, as well as taking into account the advantages and disadvantages of each

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method and sphere of their effective application. The end result is a guide to mastering the many intricacies of the range of methods of structural analysis. The book

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differentiates itself by focusing on extended analysis of beams, plane and spatial trusses, frames, arches, cables and combined structures; extensive application of

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simple and effective
procedures for computation
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researches and graduate
and post graduate students
with an interest in
perfecting structural
analysis.

Presenting an introduction

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to elementary structural analysis methods and principles, this book will help readers develop a thorough understanding of both the behavior of structural systems under

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load and the tools needed to analyze those systems. Throughout the chapters, they'll explore both statically determinate and statically indeterminate structures. And they'll

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find hands-on examples and problems that illustrate key concepts and give them opportunity to apply what they've learned.

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whole family functioning
or the functioning of
multiple family
relationships, FAMILY
ASSESSMENT methodically
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structural analysis
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is on clarity and unity in
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torsion, shear
deformations, thermal
effect and plastic
deformations are
addressed. A unified
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time to explore the
equilibrium of structures.
That journey starts with
the emergence of the
statics and strength of
materials of Leonardo da*

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Vinci and Galileo, and reaches its first climax with Coulomb's structural theories for beams, earth pressure and arches in the late 18th century. Over the next 100 years,

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Navier, Culmann, Maxwell, Rankine, Mohr, Castigliano and Müller-Breslau moulded theory of structures into a fundamental engineering science discipline that - in the form of modern

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*structural mechanics -
played a key role in
creating the design
languages of the steel,
reinforced concrete,
aircraft, automotive and
shipbuilding industries in*

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the 20th century. In his portrayal, the author places the emphasis on the formation and development of modern numerical engineering methods such as FEM and describes their

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*integration into the
discipline of
computational mechanics.
Brief insights into
customary methods of
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historical facts help the*

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reader to understand the history of structural mechanics and earth pressure theory from the point of view of modern engineering practice. This approach also makes a

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vital contribution to the teaching of engineers. Dr. Kurrer manages to give us a real feel for the different approaches of the players involved through their engineering

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science profiles and personalities, thus creating awareness for the social context. The 260 brief biographies convey the subjective aspect of theory of structures and

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structural mechanics from the early years of the modern era to the present day. Civil and structural engineers and architects are well represented, but there are also biographies

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*of mathematicians,
physicists, mechanical
engineers and aircraft and
ship designers. The main
works of these
protagonists of theory of
structures are reviewed*

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and listed at the end of each biography. Besides the acknowledged figures in theory of structures such as Coulomb, Culmann, Maxwell, Mohr, Müller-Breslau, Navier, Rankine,

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*Saint-Venant, Timoshenko
and Westergaard, the
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