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The theory of structures
deals with the mechanics
of slightly deformable
bodies. The 'slight
deformations are such
that, viewed overall, the
geometry of the structure
does not appear to alter,
so that, for example,
equilibrium equations
written for the original
structure remain valid
when the structure is
deformed.

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STRUCTURES
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3. Total strain energy
theory for the failure of a
material at the elastic
limit is known (A)Guest's
or Trecas' theory (B)St.
Venant's theory
(C)Rankine's theory
(D)Haig's theory. Answer:
Option D . 4. The
maximum magnitude of
shear stress due to shear
force F on a rectangular
section of area A at the
neutral axis is (A)F/A
(B)F/2A (C ...

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1 Section 2. 1. A simply
supported beam A carries
a point load at its mid
span. Another identical
beam B carries the same
load but uniformly
distributed over the entire
span. The ratio of the
maximum deflections of
the beams A and B, will
be. A. 2/3.

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3.1 Introduction 3.1.1
Basic concepts The
Theory of Structures' is
concerned with
establishing an
understanding of the
behaviour of structures
such as beams, columns,
frames, plates and shells,
when subjected to applied
loads or other actions
which have the effect of
changing the state of
stress and deformation of
the structure.

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Andres W.C. Oreta De La
Salle University Manila,
Philippines 2. Structural
Analysis is an integral part
of a structural engineering
project 3. Structures can
not be analyzed. They can

only be load-tested. We analyze the “model” of a structure. 4.

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A structural study examines the oldest remaining metal bridge in the Commonwealth of Virginia, a wrought-iron bowstring arch truss, designed and manufactured by the King Iron Bridge Company.

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elements arranged so that the whole structures as well as their components are capable of holding themselves without appreciable geometric change during loading and unloading.

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This book provides the reader with a consistent approach to theory of structures on the basis of applied mechanics. It covers framed structures as well as plates and shells using elastic and plastic theory, and emphasizes the historical background and the relationship to practical engineering activities.

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Introduction Lecture.1 4
Dr. Muthanna Adil Najm
Northern Technical
University Theory of
Structures INTRODUCTION
The structural analysis is
a mathematical algorithm
process by which the
response of a structure to
specified loads and
actions is determined.

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STRUCTURES Any civil
engineering structure is
conceived keeping in
mind its intended use, the
materials available, cost
and aesthetic
considerations. The struc-
tural analyst encounters a
great variety of structures
and these are briefly
reviewed here.

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The Maximum Strain
Theory According to the
maximum strain theory, a
ductile material begins to
yield when the maximum
principal strain reaches
the strain at which
yielding occurs in simple
tension or when the
minimum principal strain
equals the yield point
strain in simple
compression.

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various meanings. □By an
engineering structurewe
mean roughly something
constructed or built. □The
principal structures of
concern to civil engineers
are bridges, buildings,
walls, dams, towers,
shells, and cable
structures. □Such
structures are composed
of one or more solid
elements arranged so that
the whole structures as
well as their components
are capable of holding
themselves without
appreciable geometric
change during loading
and unloading.

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gineering structure is con-
ceived keeping in mind its
intended use, the mate-
rials available, cost and
aesthetic considerations.
The structural analyst en-
counters a great variety
of structures and these
are briefly reviewed here.

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Introduction on Theory of Structures 1. Introduction to Structural Analysis Andres W.C. Oreta De La Salle University Manila, Philippines 2. Structural Analysis is an integral part of a structural engineering project 3. Structures can not be analyzed. They can only be load-tested. We analyze the "model" of a

structure. 4.

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This book provides the reader with a consistent approach to theory of structures on the basis of applied mechanics. It covers framed structures as well as plates and shells using elastic and plastic theory, and emphasizes

the historical background and the relationship to practical engineering activities.

Theory of structures: Moment of inertia, bending stresses and shear stresses.

The theory of structures deals with the mechanics of slightly deformable bodies. The 'slight deformations are such that, viewed overall, the geometry of the structure does not appear to alter, so that, for example, equilibrium equations written for the original structure remain valid when the structure is deformed.

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duction Lecture.1 4 Dr. Muthanna Adil Najm Northern Technical University Theory of Structures INTRODUCTION The structural analysis is a mathematical algorithm process by which the response of a structure to specified loads and actions is determined.

A structural study examines the oldest remaining metal bridge in the Commonwealth of Virginia, a wrought-iron bowstring arch truss, designed and manufactured by the King Iron Bridge Company.

3. Total strain energy theory for the failure of a material at the elastic limit is known (A)Guest's or Tresca's theory (B)St. Venant's theory (C)Rankine's theory (D)Haig's theory. Answer: Option D . 4. The maximum magnitude of shear stress due to shear force F on a rectangular section of area A at the neutral axis is (A) F/A (B) $F/2A$ (C) ...

The Maximum Strain Theory According to the maximum strain theory, a ductile material begins to yield when the maximum

principal strain reaches the strain at which yielding occurs in simple tension or when the minimum principal strain equals the yield point strain in simple compression.

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3.1 Introduction 3.1.1 Basic concepts The Theory of Structures' is concerned with establishing an understanding of the behaviour of structures such as beams, columns, frames, plates and shells, when subjected to applied loads or other actions which have the effect of changing the state of stress and deformation of the structure.

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