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structures deals with
the mechanics of
slightly deformable
bodies. The slight

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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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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

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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. $\frac{2}{3}$.

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deformation of the
structure.

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bending stresses and
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1. Introduction to
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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

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examines the oldest
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Understand and calculate the stability, strength and rigidity and earthquake of built structures for buildings and nonbuilding structures. The structural designs are integrated with those of other designers such as architects and building services engineer and often

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□The word

structurehas various

meanings. □By an

engineering

structurewe mean

roughly something

constructed or built.

□The principal

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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

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themselves without appreciable geometric change during loading and unloading.

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keeping in mind its
intended use, the
materials available,
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considerations. The
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encounters a great
variety of structures
and these are briefly
reviewed here.

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publication of the first English edition of The History of the Theory of Structures, Dr.

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equilibrium of
structures. That
journey starts with the
emergence of the
statics and strength of
materials of Leonardo
da Vinci and Galileo,
and reaches its first
climax with Coulomb's
structural theories for
beams, earth
pressure and arches
in the late 18th
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