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Theory of Structures - 1

Lecture 1 Theory of

structure-2 Lecture 1

*Quick Revision of*

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*Civil Engineering*

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9:00 PM - RRB JE 2019

| Civil Engg by Sandeep

Sir | Theory of Structure

(Kinematic

Indeterminacy)

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Engineering (PART-2)

Civil Engg. Je Exam:

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lecture Part 1 Theory

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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,

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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

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limit is known In

(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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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

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ratio of the maximum

deflections of the beams

A and B, will be. A.  $\frac{2}{3}$ .

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**II - Civil Engineering**

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### Structures In

#### 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



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state of stress and  
deformation of the  
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Theory of structures:  
Moment of inertia,  
bending stresses and  
shear stresses.

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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”

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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

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Structural engineering is

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a sub-discipline of civil engineering in which structural engineers are trained to design the 'bones and muscles' that create the form and shape of man-made structures. Structural engineers need to understand and calculate the stability, strength and rigidity and earthquake of built structures for buildings

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and nonbuilding

structures. The

structural designs are

integrated with those of

other designers such as

architects and building

services engineer and

often supervise

**Structural engineering**

**- Wikipedia**

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250 Theory of structures

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**Engineering Objective**

?The word structure has various meanings. ?By an engineering



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structure we 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

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as well as their  
components are capable  
of holding themselves  
without appreciable  
geometric change  
during loading and  
unloading.

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examples with detailed  
answer description,  
discussion in forum  
helps in easy to  
understand concepts.

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**Theory Of Structures -  
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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

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historical background  
and the relationship to  
practical engineering  
activities.

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Introduction Lecture.1 4

Dr. Muthanna Adil

Najm Northern

Technical University

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INTRODUCTION The

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Structures In a mathematical algorithm process by which the response of a structure to specified loads and actions is determined.

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civil engineering In

structure is conceived

keeping in mind its

intended use, the

materials available, cost

and aesthetic

considerations. The

structural analyst

encounters a great

variety of structures and

these are briefly

reviewed here.

**Theory of structure**

*Page 31/76*

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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



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This book traces the  
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evolution of theory of  
structures and strength  
of materials - the  
development of the  
geometrical thinking of  
the Renaissance to  
become the fundamental  
engineering science  
discipline rooted in  
classical mechanics.

Starting with the  
strength experiments of  
Leonardo da Vinci and  
Galileo, the author

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examines the emergence of individual structural analysis methods and their formation into theory of structures in the 19th century. For the first time, a book of this kind outlines the development from classical theory of structures to the structural mechanics and computational mechanics of the 20th

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century. In doing so, the author has managed to bring alive the differences between the players with respect to their engineering and scientific profiles and personalities, and to create an understanding for the social context.

Brief insights into common methods of analysis, backed up by historical details, help

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the reader gain an understanding of the history of structural mechanics from the standpoint of modern engineering practice. A total of 175 brief biographies of important personalities in civil and structural engineering as well as structural mechanics plus an extensive bibliography round off this work.

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the 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 century.

Over the next 100 years,

Navier, Culmann,

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Maxwell, Rankine,

Mohr, Castigliano and  
Müller-Breslau moulded  
theory of structures into  
a fundamental

engineering science  
discipline that - in the  
form of modern  
structural mechanics -  
played a key role in  
creating the design  
languages of the steel,  
reinforced concrete,  
aircraft, automotive and



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shipbuilding industries

in the 20th century. In

his portrayal, the author

places the emphasis on

the formation and

development of modern

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methods such as FEM

and describes their

integration into the

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mechanics. Brief

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give us a real feel for the different approaches of the players involved through their engineering science profiles and personalities, thus creating awareness for the social context. The 260 brief biographies convey the subjective aspect of theory of structures and structural mechanics from the

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Structures In

early years of the

modern era to the

present day. Civil and

structural engineers and

architects are well

represented, but there

are also biographies 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, Saint-Venant, Timoshenko and Westergaard, the reader is also introduced to G. Green, A. N. Krylov, G. Li, A. J. S. Pippard, W.

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Prager, H. A. Schade, A.  
W. Skempton, C. A.  
Truesdell, J. A. L.  
Waddell and H.

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of the modern  
movement in theory of  
structures, J. H. Argyris,  
R. W. Clough, T. v.  
Kármán, M. J. Turner  
and O. C. Zienkiewicz,  
are also given extensive  
biographical treatment.

A huge bibliography of

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with earth pressure  
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FEM, computer-assisted graphical analysis and historical engineering science. The number of pages now exceeds 1,200 - an increase of 50% over the first English edition. This book is the first all-embracing historical account of theory of structures from the 16th century to the present day.



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civil engineers will also  
find this book extremely  
useful.

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type of intuition by presenting extensive, realistic problems and case studies together with computer simulation, allowing for rapid exploration of how a structure responds to changes in geometry and physical parameters. The integrated approach employed in

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covers framed structures  
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shells using elastic and

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and the relationship to

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activities. This is the

first comprehensive

treatment of the school

of structures that has

evolved at the Swiss

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over the last 50 years.  
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Physical models have been, and continue to be used by engineers when faced with

unprecedented challenges, when engineering science has been non-existent or inadequate, and in any other situation when the engineer has needed to raise their confidence in a design proposal to a

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sufficient level to begin construction. For this reason, models have mostly been used by designers and

constructors of highly innovative projects, when previous experience has not been available. The book covers the history of using of physical models in the design and development of



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civil and building

engineering projects

including bridges in the  
mid-18th century,

William Fairbairn's

Britannia bridge in the

1840s, the masonry

Aswan Dam in the

1890s, concrete dams in

the 1920s, thin concrete

shell roofs and the

dynamic behaviour of

tall buildings in

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1930s, tidal flow in estuaries and the acoustics of concert halls from the 1950s, and cable-net and membrane structures in the 1960s. Traditionally, progress in engineering has been attributed to the creation and use of engineering science, the understanding materials properties and the development of new

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construction methods.

The book argues that the use of reduced scale

models have played an

equally important part in

the development of civil

and building

engineering. However,

like the history of

engineering design

itself, this crucial

contribution has not

been widely reported or

celebrated. The book

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Structures concludes with reviews of the current use of physical models alongside computer models, for example, in boundary layer wind tunnels, room acoustics, seismic engineering, hydrology, and air flow in buildings.

Theory of Adaptive Structures provides the basic theory for

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It synthesizes well-established theories on modern control as well as statics and dynamics of deformable bodies.

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actuation computation problems - keeping these structures at close proximity of any chosen nominal state with the least energy consumption. An introduction to the distributed parameter adaptive structures is also provided. The book follows that modern trend in research and industry striving to

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incorporate intelligence into engineered products through microprocessors that are becoming smaller, faster, and cheaper at astounding rates. Not using them in engineered products may become an enormous liability. Resulting from the advances in materials technology on sensors and actuator

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Structures as well as

the availability of very

powerful and reliable

microprocessors, there

is an ever-increasing

interest in actively

controlling the behavior

of engineering systems.

Engineers and

engineering scientists

must revive and broaden

their activities to

maximize applications

for predicting and



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controlling the behavior  
of deformable bodies.

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static case Statically  
determinate adaptive  
structures Statically  
indeterminate adaptive  
structures Active

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vibration control for  
autonomous and non-  
autonomous cases

Active control against  
wind Active control  
against seismic loads

Distributed parameter  
adaptive structures The  
technology of adaptive  
structures has created an  
environment where the  
analysis, not the  
computation, of  
structural response - du

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This authoritative text concentrates on the derivation of simple but reasonably accurate mathematical solutions, and the actual presentation of closed-form results for quantities that are of interest to the designer of shell structures.

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