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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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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.

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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 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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establishing an understanding of the

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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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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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remaining metal bridge in the  
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Structural engineering is a sub-discipline of civil engineering in which structural engineers are trained to design the 'bones and muscles' that create the form and shape

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of man-made structures. Structural engineers need to 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 supervise

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## THEORY OF STRUCTURES MCQ PDF - Civil Engineering Objective

The word structure has various meanings.

By an engineering 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.

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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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*Page 24/66*



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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

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using elastic and plastic theory, and emphasizes the historical background and the relationship to practical engineering activities.

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FORMS OF STRUCTURES Any civil engineering 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.

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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

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the minimum principal strain equals the yield point strain in simple compression.

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This book traces the 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

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and Galileo, the author 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 the reader gain an

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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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Ten years after the publication of the first English edition of The History of the Theory of Structures, Dr. Kurrer now gives us a much enlarged second edition with a new subtitle: Searching for Equilibrium. The author invites the reader to take part in a journey through time to explore the equilibrium of structures. That journey starts

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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, Maxwell, Rankine, Mohr, Castigliano and Müller-Breslau moulded

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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 shipbuilding industries in the 20th century. In his portrayal, the author places the emphasis on

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the formation and development of modern numerical engineering methods such as FEM and describes their integration into the discipline of computational mechanics. Brief insights into customary methods of calculation backed up by historical facts help the reader to understand the history of structural mechanics and earth pressure



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theory from the point of view of modern engineering practice. This approach also makes a 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 science profiles and personalities, thus creating awareness for the social context.

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The 260 brief biographies convey the subjective aspect of theory of structures and 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 of mathematicians, physicists, mechanical engineers and aircraft and ship designers.

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The main works of these protagonists of theory of structures are reviewed 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

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to G. Green, A. N. Krylov, G. Li, A. J. S. Pippard, W. Prager, H. A. Schade, A. W. Skempton, C. A. Truesdell, J. A. L. Waddell and H. Wagner. The pioneers of the modern movement in theory of structures, J. H. Argyris, R. W. Clough, T. v. K á r m á n, M. J. Turner and O. C. Zienkiewicz, are also given extensive biographical treatment. A

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structures as a means of determining the external reactions induced at supports due to loading. Other chapters consider the dependence of stress components on the choice of reference plane. This book discusses as well the method of determining the internal forces in the bars of a truss, which depends upon applying the



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evolved at the Swiss Federal Institute of Technology in Zurich over the last 50 years. The many worked examples and exercises make this a textbook ideal for in-depth studies. Each chapter concludes with a summary that highlights the most important aspects in concise form. Specialist terms are defined in the appendix. There is an

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extensive index befitting such a work of reference. The structure of the content and highlighting in the text make the book easy to use. The notation, properties of materials and geometrical properties of sections plus brief outlines of matrix algebra, tensor calculus and calculus of variations can be found in the appendices. This publication

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