

Instruction Sheet of Sessional

ME-2210

Experiment No. : 03

title: Study & observation of Compression test of given Wooden Block.

Objectives:

1. To observe the failure of the wooden block under compressive load.
2. To determine the stress & strain developed by the wooden block.
3. To determine the nature of the stress vs. strain curve for the wooden block.
4. To determine the modulus of elasticity (E).

Theory:

Stress: The unit strength of a material is usually defined as the stress. It is denoted by σ .

$$\sigma = \frac{P}{A}$$

P = Applied load.

A = Cross sectional area.

Strain: The unit elongation is called as strain. It is denoted by ϵ .

$$\epsilon = \frac{\delta}{L}$$

δ = Elongation

L = Initial length

Modulus of Elasticity:

According to Hooke's Law,

Stress \propto Strain

$$\Rightarrow \sigma \propto \delta$$

$$\Rightarrow \sigma = E \cdot \epsilon$$

E is constant called Young's Modulus or Modulus of Elasticity

$$\therefore E = \frac{\sigma}{\epsilon}$$

Apparatus :

Data :

Cross sectional area of the block, A =

Length of the wooden block, L =

No. of obs.	Load P kN	Deflection, δ mm.	Stress, $\sigma = \frac{P}{A}$ kN/m ²	Average σ kN/m ²	Strain, $\epsilon = \frac{\delta}{L}$	Average ϵ	Modulus of elasticity $E = \frac{\sigma}{\epsilon}$ kN/m ²

Calculation :

Result :

Discussion :

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Robert R. Redfield



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Selected Water Resources Abstracts ,1989 **Mechanical Engineering** ,1965 **Labor Relations Reference Manual** ,1976 The Prokaryotes Stanley Falkow,Eugene Rosenberg,Karl-Heinz Schleifer,Erko Stackebrandt,2006-07-13
The revised Third Edition of The Prokaryotes acclaimed as a classic reference in the field offers new and updated articles by experts from around the world on taxa of relevance to medicine ecology and industry Entries combine phylogenetic and systematic data with insights into genetics physiology and application Existing entries have been revised to incorporate rapid progress and technological innovation The new edition improves on the lucid presentation logical layout and abundance of illustrations that readers rely on adding color illustration throughout Expanded to seven volumes in its print form the new edition adds a new searchable online version Official Directory Oregon. Office of Superintendent of Public Instruction,1915 *The United States Catalog* ,1921 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1977 **Selected Water Resources Abstracts** ,1989 **Oregon School-community College Directory** ,1914 **Manual of Clinical Microbiology** Albert Balows,American Society for Microbiology,1991 First published in 1970 previous edition in 1985 MCM5 is enlarged and restructured to keep pace with new developments and technology Users must have knowledge of the fundamentals of microbiology and possess basic laboratory skills Operational and organizational chapters address topics ranging from collecting and managing clinical specimens to selecting the best methodological approach for determining strain identity Subsequent chapters deal with specific microorganisms as etiologic agents and with the clinical microbiologic laboratory in various treatment and research functions Member price 64 Annotation copyrighted by Book News Inc Portland OR Engineering News and American Contract Journal ,1893
Engineering News ,1893 *Energy Research Abstracts* ,1983 Leeds Public Libraries. Catalogue of the Central Lending Library, Etc Leeds Public Libraries,1872 **Regulation of the Heat Shock Response in Escherichia Coli** Eric Guisbert,2006 All organisms utilize the heat shock response to sense the level of unfolded proteins in the cell and adjust the level of chaperones and proteases accordingly The regulation of the heat shock response has been extensively studied yet there are still unexplained components I report three contributions to our understanding of this regulation First I show that instead of a single chaperone a chaperone network consisting of at least DnaK J and GroEL S is used to sense unfolded proteins Second I provide evidence for an unexpected link between activity control and regulated degradation of sigma32 and suggest that an additional unidentified factor contributes to the regulation of sigma32 activity These results are based on analysis of sigma32 mutants defective in activity regulation Third I demonstrate that Hfq and potentially small RNA binding partners contribute to regulation of sigma32 in at least two distinct ways Hfq represses DnaK translation which in turn leads to an increase in sigma 32 activity Also Hfq participates in a process that we have termed long term adaptation whereby the activity of sigma32 recovers to normal levels following long term chaperone overexpression *The Publishers Weekly* ,1897

Applied and Environmental Microbiology ,2007
Serials in Print, 1979 R. R. Bowker LLC,1979-05

ERDA Energy Research Abstracts ,1983
Montgomery Ward Montgomery Ward,1924

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