Doster

Experiment # 9

Bending Test on Wooden Beam

Aim : To determine the maximum bending stress developed in the wooden beam.

Equipment: Universal Testing Machine (UTM), Vernier calliper, Scale, Test specimens (one wooden beam).

Exp t

Set-up



Figure 9.1 (a) Universal Testing Machine, (b) Experimental set-up, and (c) The wooden beam specimen

Figure 9.1 (a) shows the Universal Testing Machine required to perform the bending test on wooden beam. Figure 8.1(b) shows the experimental set-up in which a wooden beam is placed on two supports at its end. The two supports are attached to the movable grip of the UTM which is also fixed with a scale for measuring beam deflection. The load is applied through the fixed grip of the UTM at the midspan of the beam. The wooden beam has a rectangular cross-section as shown in Figure 8.1(c).

Theory : For a beam loaded transversely, the internal forces developed in the beam are categorized as:

Shear Force: It is the algebraic summation of all vertical forces to either left or right of any assumed section along the length of the beam. Shear force at any section causes Shear Sheares on various fibres over the cross-section of the beam (i.e. along the depth).

Wooden Beam Bending Test Manual

Richard Thomas Liddicoat, Philip Orland Potts

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Springer Handbook of Wood Science and Technology Peter Niemz, Alfred Teischinger, Dick Sandberg, 2023-04-01 This handbook provides an overview on wood science and technology of unparalleled comprehensiveness and international validity It describes the fundamental wood biology chemistry and physics as well as structure property relations of wood and wood based materials The different aspects and steps of wood processing are presented in detail from both a fundamental technological perspective and their realisation in industrial contexts. The discussed industrial processes extend beyond sawmilling and the manufacturing of adhesively bonded wood products to the processing of the various wood based materials including pulp and paper natural fibre materials and aspects of bio refinery Core concepts of wood applications quality and life cycle assessment of this important natural resource are presented The book concludes with a useful compilation of fundamental material parameters and data as well as a glossary of terms in accordance with the most important industry standards Written and edited by a truly international team of experts from academia research institutes and industry thoroughly reviewed by external colleagues this handbook is well attuned to educational demands as well as providing a summary of state of the art research trends and industrial requirements It is an invaluable resource for all professionals in research and development and engineers in practise in the field of wood science and technology **Laboratory Manual of Materials Testing** Richard Thomas Liddicoat, Philip Orland Potts, 1952 **Power Plant Testing James Ambrose** Laboratory Instructions for Tests of Metal, Timber, Brick, Contrete University of California, Berkeley. Moyer, 1926 Division of Civil Engineering. Testing Laboratory, 1912 **Laboratory Notes on the Strength of Materials** Morton Owen **Proceedings of the ... Annual Meeting Society for the Promotion of Engineering Education (U.S.).** Annual Withey, 1912 Design of Wood Aircraft Structures Forest Products Laboratory (U.S.), 1944 Meeting, 1913 ANC [bulletin]. Design of Wood Aircraft Structures United States. Army-Navy-Civil Committee on Aircraft Design Criteria, 1944 **ANC** Bulletin 18. Design of Wood Aircraft Structures United States. Munitions Board, 1951

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