

Chapter 4: Failure Theories

4.0 Introduction

4.1 Macromechanical Failure Theories

4.1.1 Maximum Stress Theory

4.1.2 Maximum Strain Theory

4.1.3 Tsai-Hill Theory (Deviatoric energy theory)

4.1.4 Tsai-Wu Theory (Interactive tensor theory)

4.2 How to Apply a Failure Theory

4.3 Description of Failure Theories

4.3.1 Maximum Stress Theory

4.3.2 Maximum Strain Theory

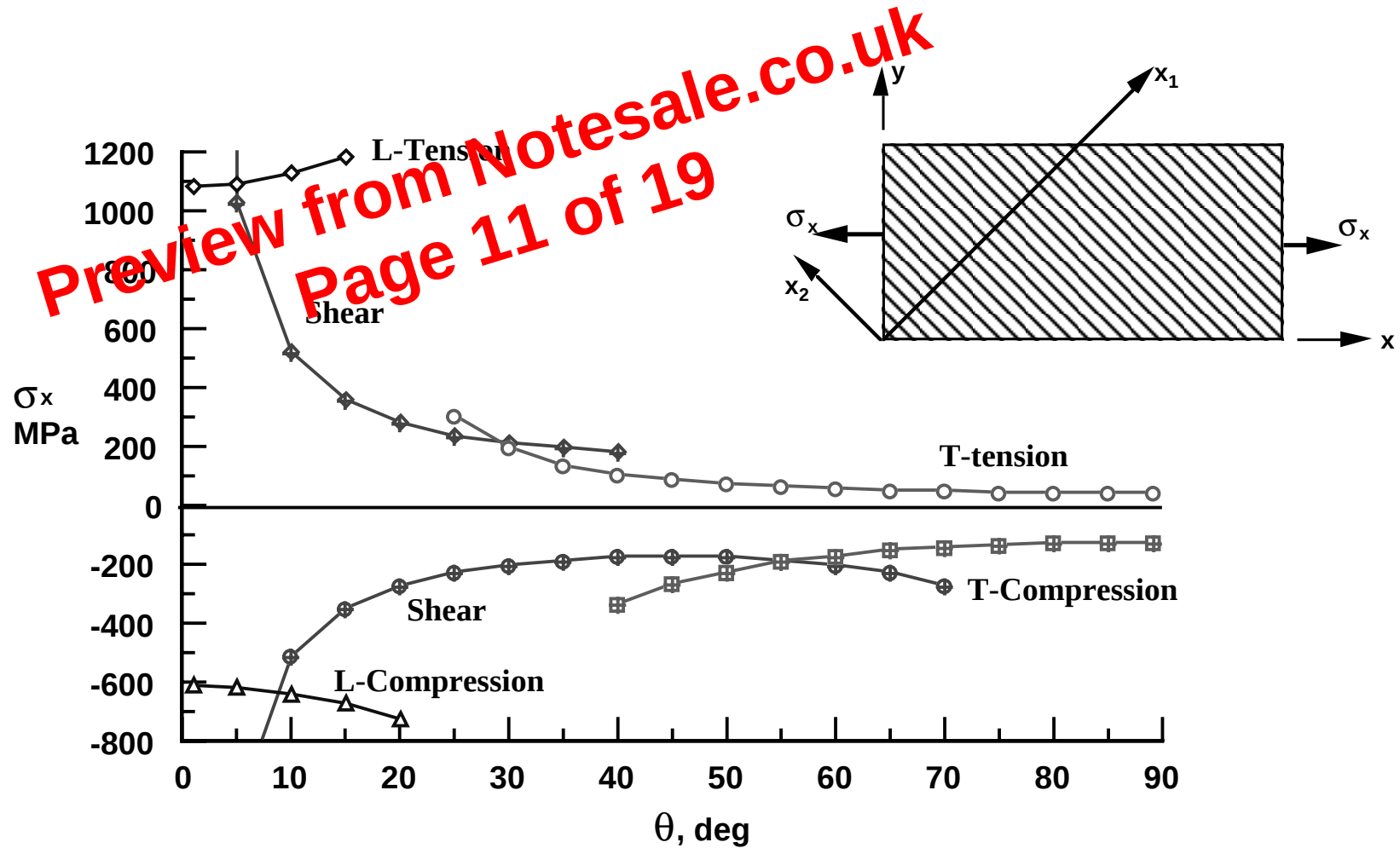
4.3.3 Tsai-Hill Theory (Deviatoric energy theory)

4.3.4 Tsai-Wu Theory (Interactive tensor theory)

4.4 Comparison of Failure Theories

4.5 Application Structural Analysis

Uniaxial Strength of an Off-Axis Lamina Maximum Strain Theory



Uniaxial Strength of an Off-Axis Lamina Tsai-Hill & Tsai-Wu Theories

