

99-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	彈性力學	Serial No. / ID	1574 / ADR5020
Dept.	機械與自動化工程學系博士班	School System / Class	研究所博士班1年1班
Lecturer	劉大銘	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	No
Time / Place	(二)6 / H439 (四)78 / H439	Language	English

Introduction

瞭解物體的變形力學及其相關方程式的導出及在線彈性體受力變形有關問題的應用及其邊界值問題構成與求解，包括軸向扭轉，軸向拉張，彎折及混合負載的三維問題。另探討二維特例的平面應變及平面應力問題的邊界值問題構成及求解。

Outline

Part 1: Math review (tensor)and notation
Part 2: Deformation and basic equations
Part 3: Torsion problems
Part 4: Bending with Torsion problems
Part 5: Plane strain problems
Part 6: Plane stress problems

Prerequisite

Strength of Materials(材料力學), Engineering Mathematics(工程數學), English reading and writing(英文讀寫)