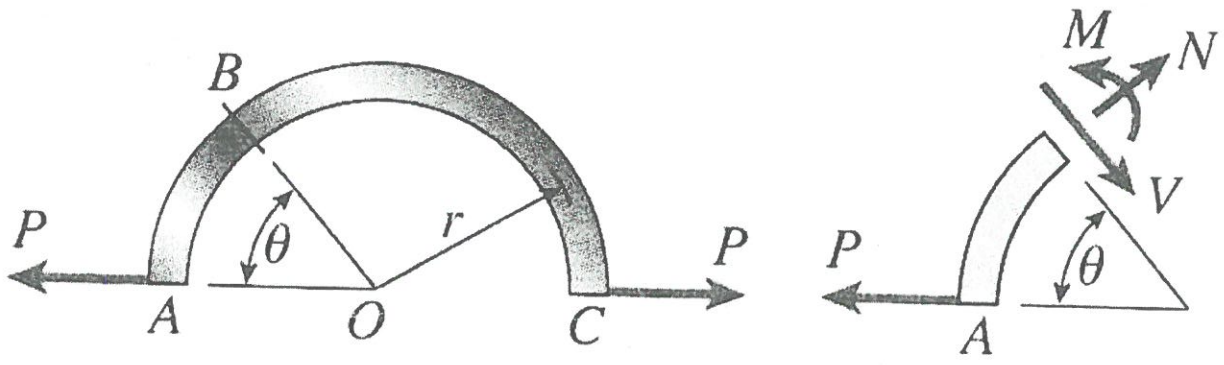
淡江大學 109 學年度日間部寒假轉學生招生考試試題

系別：土木工程學系三年級　　科目：靜力學　32-1　32

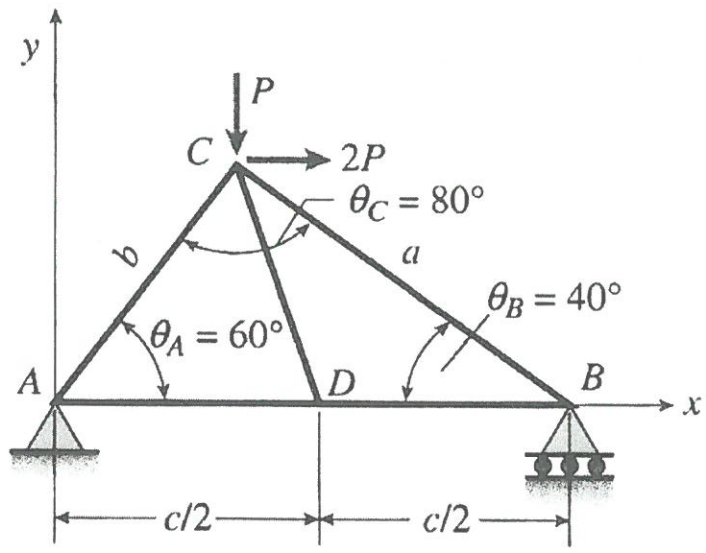
考試日期：1 月 18 日(星期一) 第 2 節　　本試題共　5 大題，　2 頁

本試題雙面印刷

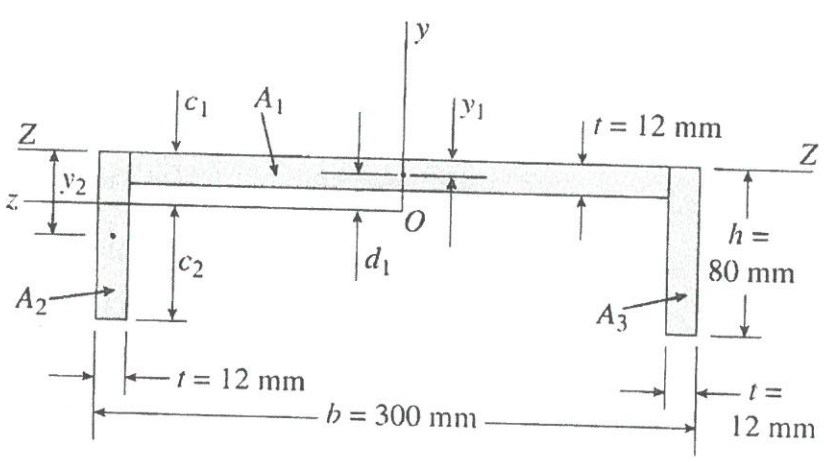
1. Determine the axial force N, shear force V, and bending moment M at the cross-section defined by the angle θ. (15 pt)



2. The plane truss shown has four joints and five members. Find support reactions and all member forces using the method of joint. Given : $a = 2.638$ (m), $b = 1.958$ (m), $c = 3$ (m), $P = 150$ (KN). (25 pt)



3. Determine the centroid O of the beam cross-sectional area shown. Label the distances c_1 and c_2 . Calculate the moment of inertia about z axis. (20 pt)



背面尚有試題

淡江大學 109 學年度日間部寒假轉學生招生考試試題

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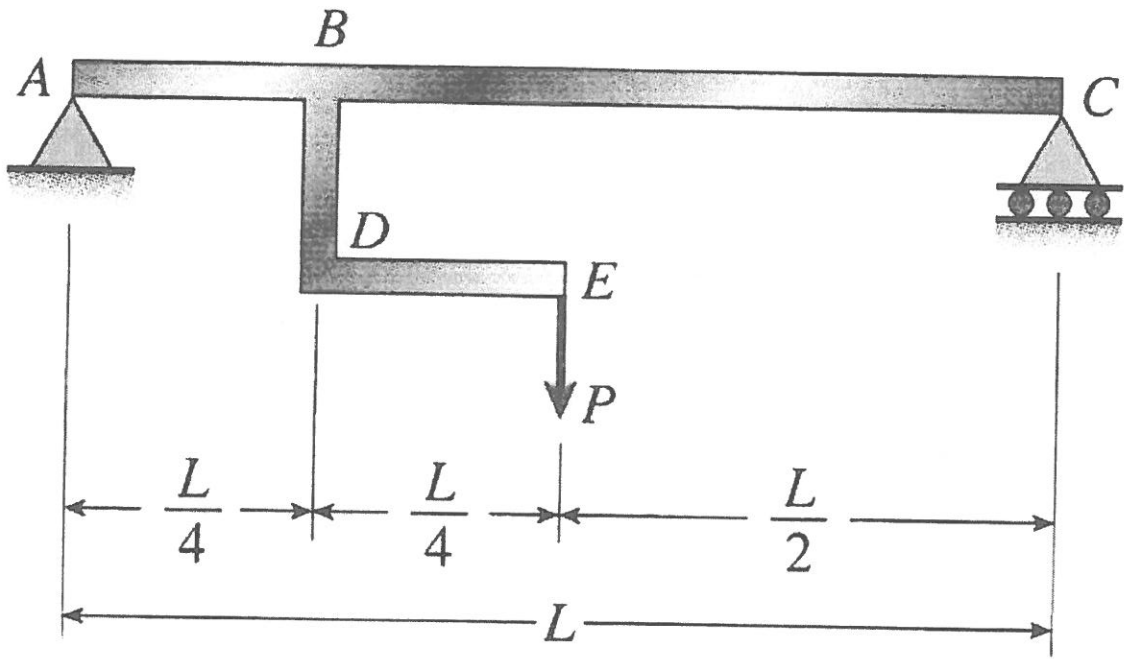
4. Draw the shear force and bending moment diagram for the beam *ABC*. Label the values of the shear and moment. (20 pt)



5. Determine the maximum moment and the corresponding location for the beam shown below. (20 pt)