

淡江大學 104 學年度碩士班招生考試試題

23

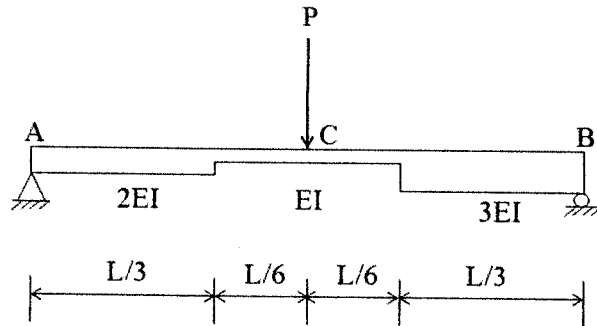
系別：土木工程學系 A 組

科目：結構學 (含工程力學)

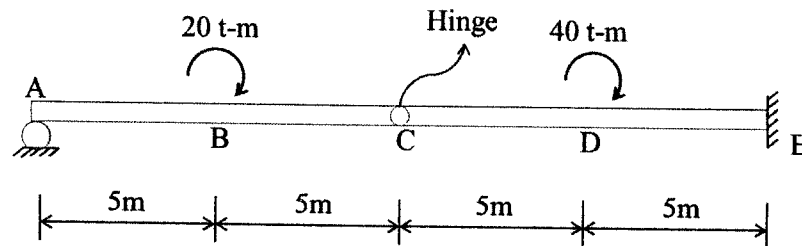
考試日期：3 月 8 日 (星期日) 第 2 節

本試題共 4 大題， 1 頁

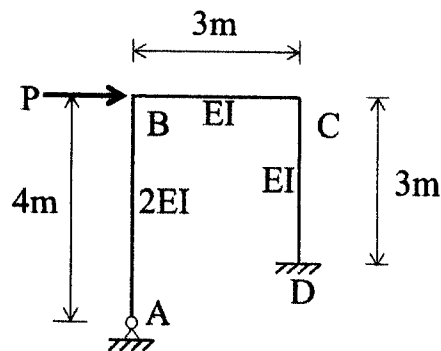
1. Use "Conjugate beam method" to find the deflection of the middle point C. (25%)



2. Use "Virtual work method" to find the reaction force R_A at point A, the reaction force R_E at point E, and the reaction moment M_E at point E. (25%)



3. Use "Slope deflection method" to find the horizontal displacement at point C. (25%)



4. Use "Moment distribution method" to find the displacement at point B. ($E = 30 \times 10^3$ ksi; $I = 2880$ in⁴; $L = 10$ ft) (25%)

