淡江大學 98 學年度碩士班招生考試試題

系別:土木工程學系

科目:結構學

准帶項目請打「V」
V 簡單型計算機
本試題共 / 頁, 4 大題

- [1]. Analyze the structure in Fig.1. Use slope deflection method only. Draw the moment diagram. E and I are constant for all members. 30 %
- [2]. Solve the structure shown in Fig.2. Use matrix displacement method, with E=30000ksi, I=1000. In**4(member BC and CD). Area of member AC=2. In**2. The axial deformation of member BC and CD are neglected. Draw the moment diagram. 30 %
- [3]. Find out the axial forces of member BC and CE in structure shown as Fig.3. 20 %
- [4]. Calculate the slope at left side of the joint B for the structure shown in Fig. 4. E and I are constant for two members. Use unit load method or conjugate beam method. 20 %

