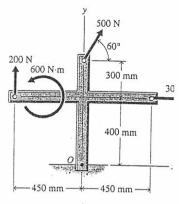
題號:226

國立臺灣大學100學年度碩士班招生考試試題

科目: 静力學(A)

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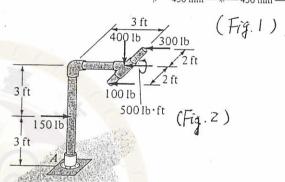
- () Three forces and a couple are applied to a bracket as shown in (Fig. /). De-20% termine
 - The magnitude and direction of the resultant. (67)
 - The perpendicular distance d_R from point O to the line of action of the re-
 - sultant. (7%)The distance x_R from point O to the intercept of the line of action of the resultant with the x-axis. (7%)



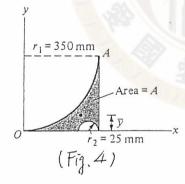
(2) Determine the reactions at the fixed support A for the pipe shown.

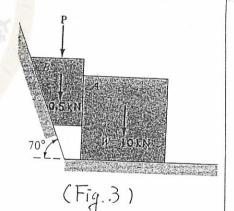
26% (Fig. 2)

Determine the minimum force P required to move block A, which weighs 10 kN. Assume $\mu_s = 0.3$ for all surfaces. (Fig. 3)



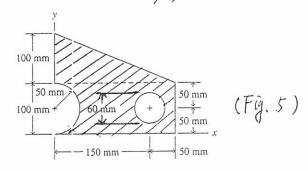
14) The curve OA is a quarter of a circle. If the shaded area A is revolved about the x axis through 360°, what will be the volume 20% of the body generated? (Fig. 4)





- Determine the second moment of the shaded area shown in (Fig. 5) with 20%

 - a. The x-axis. (1%)
 b. The y-axis. (7%)
 c. An axis through the origin O of the xy-coordinate system and normal to the plane of the area. (7%)



試題隨卷繳回