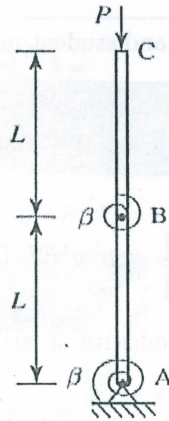


Problem 2. The system shown in the figure consists of two rigid rods supported by torsional spring (spring constant β). Determine the value of the critical load. (6p)



Kuva 2: Figure of problem 2

Problem 3. Install a stiffening element AB in the square tube as shown in the figure. The element is made of the same material as the rest of the tube. Now change the angle α by rotating AB around the center point. Show that the angle α does not affect the torsional stiffness or the shear stress of the structure.