

1. What is Pseudarthrosis?
Explain Why it happen from biomechanical point of view.
2. Describe the Ankle Joint from (a) anatomical (b) Biomechanical point of view.
3. (a) From Fig 85 Shown, explain what means "Effective Shearing Stress".
(b) From Fig 91 Shown, explain what means "tipping".
(c) From Fig 91 and Fig 92, explain which is the correct way of screwing for the fracture of Femoral Neck.

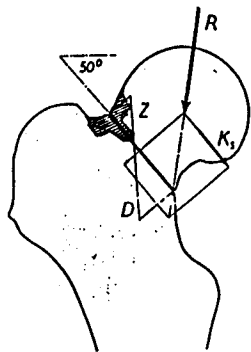


Fig. 85

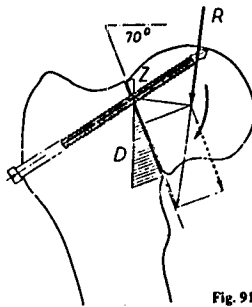


Fig. 91

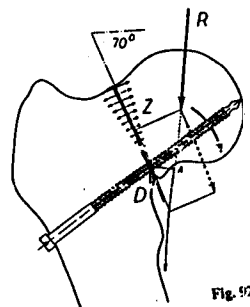


Fig. 92

4. Determine the force F which the patient must apply tangent to the rim of the handwheel of the wheelchair in order to roll up the incline of angle θ . The combined mass of the chair and patient is m . (If s is the displacement of the center of the wheel measured along the incline and β the corresponding angle in radians through which the wheel turns, it is easily shown that $s = R\beta$ if the wheel rolls without slipping.)

