1 Rolling:

A too mm wide and 12 mm Thick strip is het rolled to 9 mm Inickness at 1000°c by noing 500 mm dia of rolls at a speed of 5 m/see. Determine the height at newfal section. Consider h = 0.1, mean yield stress is 25 kgf/mm².

2) Drawing:

A wire of 4 mm diameter is drawn to 3 mm diameter Through a die of 8° semi-die angle. Determine the drawing sten. considu, M=0.06, mean yield stens is 250 N/mm and the length of Land portion in conical die is 2.4 mm.

3) Tube drawing:

In a tube sinking procen a steel tube of 20 mm onter diameter and 2 mm hick is reduced to 16 mm onter diameter. There is no change in hickness. The semi-die angle is 8°, M = 0.1, and average yield strengly is 300 N/ma determine drawing stress.

4) Forging:

A circular disc of 120 mm diameter and 64 mm height is forsed at room temperature between two flat dies to 36 mm height. Determine Ini die-load at the end of comprison horing stab analytis. The yield stren is given as 6=15(0.01+6)0.41 Kgf/mm, h = 0.05. Determine

6=15(0.01+6)0.41