

Analysis of Axi-symmetric forging of a disk

R. Chandramouli
Associate Dean-Research
SASTRA University, Thanjavur-613 401

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1. Quiz:

1. What is bulging? How does it affect the forging pressure?
2. A disk of initial diameter of 30 mm and height of 50 mm is hot upset to a final diameter of 40 mm. What is the final height of the disk? What is the maximum forging pressure if the yield strength of the material of disk is 100 MPa with $n=0$. Assume $\mu = 0.35$.
3. Two solid cylinders are of equal diameter but of different heights. They are subjected to axial upsetting. If both of them have undergone the same percentage height reduction, show that the final diameters will be the same.