

Homework No. 5

Due in class on Friday Feb 10, 2006

Only Part B of the homework is to be submitted in class.

Part A: Read/review the following topics:

- Chapter 8: Flow stress in tension and compression; effect of cold working; Annealing-recovery and recrystallization; Hot working; flow stress in hotworking; superplasticity; relevant flow stress; effects of friction; inhomogeneous deformation.
- Chapter 9: Section 9.1 and 9.2 (open die forging of cylindrical and rectangular workpieces). Browse the rest of the chapter to get familiar with various processes such as impression and closed die forging, extrusion, wire drawing, rolling.

Part B: Please submit the following problems:

Chapter 8: A12, A 15
Chapter 9: A1, A6, C2, C8