

Homework No. 7

Due in class on Friday Feb 24, 2006

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

Part A: Read/review the following topics:

Chapter 6: Solidification of metals , eutectic systems and solid solutions; non-equilibrium solidification; nucleation and growth of grains; inclusions; gases; effects of grain size.

Chapter 7: structure and properties of castings, macrosegregation; casting properties; casting processes; casting defects; part design.

Part B: Please submit the following problems:

Chapter 6: A6, A7

Chapter 7: A5, A7, B23, C7, C8 (a,b,c and d only)