

Evaluating the Cost

- Fixed Costs – not dependent on number of parts made
 - Purchase cost of machines, installing, space
- Variable Costs – are dependent on # of parts
 - Operator's, running the machine, material
- Cost Estimating (page 70)
 - Direct material and labor, overhead
 - Overhead factor - % of direct labor



Refining and Alloying

Properties often tested for in metals:

- Tensile strength
- Hardness
- Impact resistance
- Malleability
- Fatigue Resistance
- Corrosion Resistance

Casting

- ❑ Process of forming objects by pouring liquid material into a mold and letting it solidify
- ❑ See Sand Cast mold and parts
- ❑ Small quantities
- ❑ Specialized methods for large quantities, examples are die casting, centrifugal casting and pressed casting