

## Developing an Objectives-Constraints Tree

Creating a graphical representation of design objectives and constraints

Taken from *engineering design: a project-based introduction* by dym & little

- The development of an Objectives-Constraints Tree proceeds from the Attributes List and PCC.
- The hierarchy of the Objectives-Constraints Tree comes from the results of the Pairwise Comparison Chart.
  - Primary objectives are listed in the first level of the tree.
  - Secondary objectives are grouped as subsets of the primary objectives. The same concept holds for subsequent levels of the tree.
  - Constraints should be listed as a subset of related objectives.
  - The other objectives and constraints listed in the tree come from the Attributes List.
  - Objectives are listed in rectangular boxes, and constraints are listed in ovals.

