

## Design Qualifier Advice

*from Prof. Slocum*

My advise for the design quals:

- a) realllly know your 8.01, 2.001 and 2.007. 8.02 basics also helpful
- b) be ready to provide first-order estimates of power, force....
- c) be able to generate concepts and identify the dominant physics, risks, countermeasures, and select a "best" concept
- d) understand machine elements

*from Prof. Seering*

The design qual will have two problems (one written, one oral). One problem will be on machine elements, the other will be on design process.

Recommended books:

- Mechanical Engineering Design by Joseph Shigley & Charles Mischke
- Product Design and Development by Karl Ulrich & Steven Eppinger