

**Homework Assignment 3, Due at start of class, Thursday, Feb 26**

Solve Questions 14.11, 15.12, 15.31 (a,b only), 15.39, 16.8, 16.15, 16.22,  
AND solve the following:

EX1) Describe the mechanisms for failure/fracture with:

- a. thermoplastics
- b. crosslinked polymers

EX2) For *one* of the following, note 4 key details.

- a. Sol gel
- b. Single crystal
- c. Thermal evaporation
- d. Sputtering
- e. CVD
- f. PLD
- g. Semiconductor microfabrication
- h. MEMS