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Bedford, A. Statics and Mechanics of Materials. Upper Saddle River, NJ: Prentice Hall, 2002. ISBN: 9780130285935. *Note: There are many texts that treat various aspects of mechanical behavior. However, these texts tend to treat either the mechanics or the materials perspectives well, rather than integrating the two. Your lecture notes provide this integration, and we have placed on reserve the "best" textbook for specific topics.

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Required Textbook: Thomas H. Courtney. Mechanical Behavior of Materials, Second Edi-tion. (Waveland Press, Inc.: Long Grove, IL) 2000. This is a 2005 reissue of the second edition published in 2000 by McGraw Hill. Either issuing is acceptable. ... Syllabus_18565_18725.dvi Created Date:

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Understanding plastic deformation, including plastic flow, stress-strain behavior in single- and poly-crystalline materials, and geometrically necessary dislocations. Knowledge of materials strengthening mechanisms, including work hardening, boundary strengthening, and solution and precipitation hardening.

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