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Dowling, Norman E., "Mechanical Behavior of Materials: Engineering Methods for Deformation, Fracture, and Fatigue," 3rd Edition Gere, James M., "Mechanics of Materials," 6th Edition Lindeburg, Michael R., "Mechanical Engineering Reference Manual for the PE Exam," 13th Edition

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Department of Materials Engineering National Chung Hsing University wenjea@dragon.nchu.edu.tw Reference: W.F. Hosford (Cambridge, 2010)); N.E. Dowling (Pearson, 2007); G.E. Dieter, Mechanical Metallurgy (McGraw-Hill, 1988) Mechanical Properties of Materials OHP 1 Introduction • Tensile properties are used in selecting materials for

[Chapter 3: Tensile Testing - ??????](#)

*Dowling, Mechanical Behavior of Materials, Prentice Hall, 1993.
Compiler: Ifeyinwa Ijeoma Obianyo . Ph D Candidate, Department of Materials Science and Engineering,*

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In this review article, we present recent progress and advances in 3D/4D AM of various materials, and their potential applications. Critical issues for the AM of structural materials, including the printability, printing resolution/scalability/speed, geometric complexity, mechanical robustness, and cost-efficiency, are discussed, and the current limitations and future directions for designing ...

[Additive manufacturing of structural materials - ScienceDirect](#)

Nanophase materials possess unique surface and mechanical properties similar to the bone and hence are considered to be the future generation orthopedic biomaterials . Nanograined materials are materials in which the atoms are clustered in such a way that each grain consists of only few atoms with the grain size in nanometer

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range when compared ...

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The fatigue limit or endurance limit is the stress level below which an infinite number of loading cycles can be applied to a material without causing fatigue failure. Some metals such as ferrous alloys and titanium alloys have a distinct limit, whereas others such as aluminium and copper do not and will eventually fail even from small stress amplitudes. . Where materials do not have a ...

[Fatigue limit - Wikipedia](#)

This is the reason for brittle, high-strength materials being extremely sensitive even to minor scratches. In fatigue, for example, invisible toolmarks may lead to premature, unexpected failures in strong steels. Figure 2 . Figure 3. Samples of elastic stress concentration factors., Dowling, N. E. 1993. Mechanical Behavior of Materials ...

[Stress Concentration Fundamentals | Engineering Reference ...](#)

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Mechanical Metallurgy. UK: McGraw-Hill. ISBN 0-07-100406-8. Dowling, Norman E (2013). *Mechanical Behavior of Materials, Engineering Methods for Deformation, Fracture, and Fatigue* (4th ed.). Pearson Education Limited. ISBN 978-0-273-76455-7. Hertzberg, Richard W (1996). *Deformation and Fracture Mechanics of Engineering Materials* (4th ed.).

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A crack growth equation is used for calculating the size of a fatigue crack growing from cyclic loads. The growth of fatigue cracks can result in catastrophic failure, particularly in the case of aircraft. A crack growth equation can be used to ensure safety, both in the design phase and during operation, by predicting the size of cracks.

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[Crack growth equation - Wikipedia](#)

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