

CHAPTER 1

Review

1.1 In your own words, what are the differences between product testing and material testing?

Product testing includes: (a) The goal of the test procedure is different. Different product testing is designed to discover the difference of a component under conditions that involve real-world use. Material testing is intended to establish the material characteristics (material properties) that are independent of the material's use. (b) The specimens change in different product testing since use of material in the design is likely to result in some of the real product. Material testing uses idealized specimens designed to represent an essentially identical material and in some proportion of the material with the integral material properties.

1.2 What are the shortcomings, differences between material, physical, and process test?

Material test procedure only demonstrates that a fully reversible when the applied load is removed (even if it takes time to return). Material is processed after change without considering some other non-load state. Physical inherently involves breaking of bonds and the creation of new surfaces. Different test designs of these procedures take place simultaneously, but the construction of machines for experimental process test.

1.3 What are the differences the engineering stress, true stress, engineering strain, and true strain for loading along a single axis.

$$\sigma_{eng} = \text{engineering stress} = \frac{\text{load}}{\text{initial cross-sectional area}} = \frac{F}{A_0} \quad (1-1a)$$

$$\sigma_{true} = \text{true stress} = \frac{\text{load}}{\text{instantaneous cross-sectional area}} = \frac{F}{A} \quad (1-2a)$$

$$\epsilon_{eng} = \text{engineering strain} = \frac{\text{change in length}}{\text{initial length}} = \frac{l_1 - l_0}{l_0} \quad (1-1b)$$

$$\epsilon_{true} = \text{true strain} = \ln \frac{\text{final length}}{\text{initial length}} = \ln \frac{l_1}{l_0} \quad (1-2b)$$

1.4 Under what conditions in Eq. 1-1 valid? What makes it no longer valid if these conditions not met?

Equation 1-1 is valid only for independent stress-strain behavior for a single cycle from the loading or unloading process, and no permanent deformation is observed for either the unloading or loading process. Any other dependence on loading or that would require that presented in Section 1.11 or 1.12 of the 1991, 1993, 1995, 1997, 1999, 2001, 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019, 2021, 2023, 2025, 2027, 2029, 2031, 2033, 2035, 2037, 2039, 2041, 2043, 2045, 2047, 2049, 2051, 2053, 2055, 2057, 2059, 2061, 2063, 2065, 2067, 2069, 2071, 2073, 2075, 2077, 2079, 2081, 2083, 2085, 2087, 2089, 2091, 2093, 2095, 2097, 2099, 2101, 2103, 2105, 2107, 2109, 2111, 2113, 2115, 2117, 2119, 2121, 2123, 2125, 2127, 2129, 2131, 2133, 2135, 2137, 2139, 2141, 2143, 2145, 2147, 2149, 2151, 2153, 2155, 2157, 2159, 2161, 2163, 2165, 2167, 2169, 2171, 2173, 2175, 2177, 2179, 2181, 2183, 2185, 2187, 2189, 2191, 2193, 2195, 2197, 2199, 2201, 2203, 2205, 2207, 2209, 2211, 2213, 2215, 2217, 2219, 2221, 2223, 2225, 2227, 2229, 2231, 2233, 2235, 2237, 2239, 2241, 2243, 2245, 2247, 2249, 2251, 2253, 2255, 2257, 2259, 2261, 2263, 2265, 2267, 2269, 2271, 2273, 2275, 2277, 2279, 2281, 2283, 2285, 2287, 2289, 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