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Stress concentration factors are used in the design of mechanical or engineering structures and machinery and have a tremendous impact on design of virtually every product or structure subject to environmental or use-related stress from nuclear equipment, deep-sea vehicles, and aircraft to space vehicles, underground tunnels, and turbines.

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Peterson's Stress Concentration Factors establishes and maintains a system of data classification for all of the applications of stress and strain analysis and expedites their synthesis into CAD applications. Substantially revised and completely updated, this book presents stress concentration factors both graphically and with formulas.

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Peterson's Stress Concentration Factors is an excellent book for all mechanical, civil, and structural engineers, and for all engineering students and researchers. About the Author Zhuming Bi, PhD, is a professor of Mechanical Engineering.

~~Stress Concentration Calculator | MechanicCalc~~

Approximate Stress-Concentration Factors K_t for a Round Bar or Tube Having a Transverse Round Hole and Loaded in Torsion Source: R. E. Peterson, Stress-Concentration Factors, Wiley, New York, 1974, pp. 148, 244. T D a T d. The maximum stress occurs on the inside of the hole, slightly below the shaft surface.

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Stress analysis and stress concentration factors are independent of size and are related only to the ratio of the geometric dimensions to the loads. Fatigue is a size dependant phenomena. How do you put the two together? ... Peterson's Equation.

~~Stress Concentration Factors and Notch Sensitivity~~

Peterson's Stress Concentration Factors [Zhuming Bi, Walter D. Pilkey, Deborah F. Pilkey] on Amazon.com. *FREE* shipping on qualifying offers. The bible of stress concentration factors—updated to reflect today's advances in stress analysis This book establishes and maintains a system of data classification for all the applications of stress and strain analysis

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A stress concentration (often called stress raisers or stress risers) is a location in an object where stress is concentrated. An object is stronger when force is evenly distributed over its area, so a reduction in area, e.g., caused by a crack, or notch results in a localized increase in stress.

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The maximum stress is calculated as $\sigma_{max} = K_t \sigma_{nom}$, where K_t is the stress concentration factor as determined from the plot below, and σ_{nom} is calculated as: Cannot display plot -- browser is out of date.

~~Charts of Theoretical Stress Concentration Factors K*~~

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Fatigue Stress Concentration Factors K_f is normally used in fatigue calculations but is sometimes used with static stresses. K_f Convenient to think of K_f as a stress concentration factor reduced from K_t because of lessened sensitivity to notches. K_f If notch sensitivity data is not available, it is conservative to use K_t in fatigue calculations.

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~~Stress concentration - Wikipedia~~

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