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PETERSON'S STRESS CONCENTRATION FACTORS

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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Pilkey, Walter D. and Pilkey, Deborah F., "Peterson's Stress Concentration Factors," 3rd Edition "Roark's Formulas for Stress and Strain," 8th Edition Budynas-Nisbett, "Shigley's Mechanical Engineering Design," 8th Ed.

Stress Concentration Calculator | MechaniCalc

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Approximate Stress-Concentration Factors K_t s 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. $T_D = T_d$ The maximum stress occurs on the inside of the hole, slightly below the shaft surface. The nominal shear stress is $\tau_0 = T \dots$

Charts of Theoretical Stress-Concentration Factors K^*

During the design phase, there are multiple approaches to estimating stress concentration factors. Several catalogs of stress concentration factors

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have been published. Perhaps most famous is Stress Concentration Design Factors by Peterson, first published in 1953. Finite element methods are commonly used in design today.

Stress concentration - Wikipedia

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