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Peterson's stress concentration factors / Walter D. Pilkey, Deborah F. Pilkey—3rd ed. p. cm. Includes index. ISBN 978-0-470-04824-5 (cloth) 1. Stress concentration. 2. Structural analysis (Engineering) I. Pilkey, Deborah F. II. PILKEY, DEBORAH F. III. Peterson, Rudolph Earl, 1901– Stress concentration factors. IV. Title. TA417.6.P43 2007 624.1 76—dc22

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Approximate Stress- Concentration Factor K_t for Bending of a Round Bar or Tube with a Transverse Round Hole Source: R. E. Peterson, Stress- Concentration Factors, Wiley, New York, 1974, pp. 146, 235. The nominal bending stress is $\sigma_0 = M/Z_{net}$ where Z_{net} is a reduced value of the section modulus and is defined by

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

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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.

~~Stress Concentration Calculator | MechaniCalc~~

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Unless otherwise specified, the stress concentration factor K_t is based on the smaller width or diameter, d . In tension (Fig. 3.2) $K_t = \frac{c_r \max}{\langle j \text{ nom}$, where $c_r \text{ nom} = P/hd$ for a thin flat element of thickness h and $\langle r \text{ nom} = 4P/\pi r d^2$ for a circular bar. The fillet factors for tension and bending are based on photoelastic

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values.

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