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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 624.176—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  $\sigma_0 = M/Z$  where  $Z$  is a reduced value of the section modulus and is defined by

~~Charts of Theoretical Stress-Concentration Factors  $K_t^*$~~

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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

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$\sigma_{nom}$  is calculated as: Cannot display plot -- browser is out of date.

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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  $\langle r \text{ nom} = 4P/ird^2$  for a circular bar. The fillet factors for tension and bending are based on photoelastic values.



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