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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

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

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

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synthesis into CAD applications. Substantially revised and completely updated, this book presents stress concentration factors both graphically and with formulas.

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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)  $K_t = \sigma_{cr, max} / \sigma_{nom}$ , where  $\sigma_{nom} = P/hd$  for a thin flat element of thickness  $h$  and  $\sigma_{nom} = 4P/\pi d^2$  for a circular bar. The fillet factors for tension and bending are based on photoelastic values.

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