

## Peterson S Stress Concentration Factors 3rd Edition

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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 Kt 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  $\sigma = M/Z$  where Z 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  $\sigma_{nom}$  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)  $K_t = \frac{c_r}{r}$  where  $c_r = \frac{P}{hd}$  for a thin flat element of thickness  $h$  and  $c_r = \frac{4P}{\pi r d^2}$  for a circular bar. The fillet factors for tension and bending are based on photoelastic values.~~