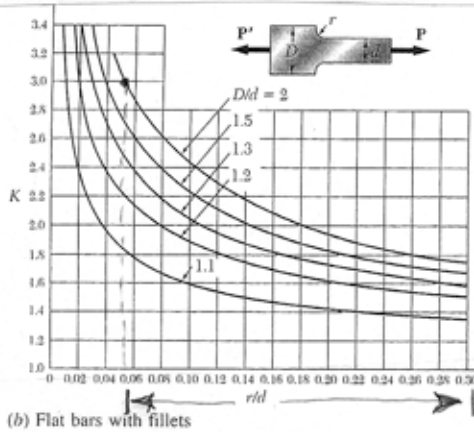


Quiz # 3

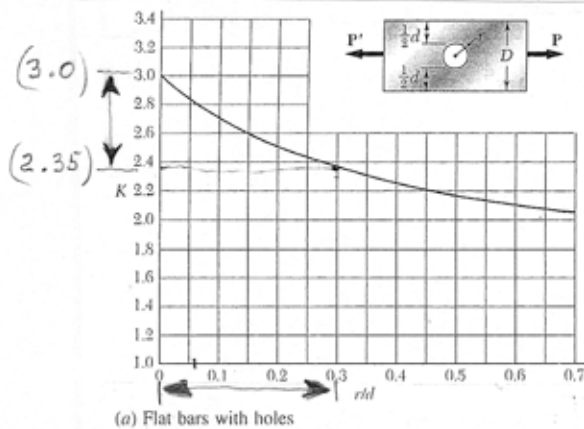
ESM2204 Spring 2011

Instructor: R.D. Kriz

Which statement below is not true.



← K = 1.0



Both 2) and 3) are Not true

Fig. 2.64 Stress concentration factors for flat bars under axial loading†

- 1) Unlike stress concentrations near holes and fillets, large stresses realized near loads applied at points are difficult to calculate or measure.
- 2) Over the same range of ratios of r/d , stress concentrations near holes are larger than near fillets.
- 3) Stress concentrations below a value of one can be realized under special conditions because stress concentrations depend on the size of the part.
- 4) Predictions of stress concentrations are only accurate for stresses that exist below the proportional elastic limit.

K 's different over same range

K must always be greater than 1.