

بنام خدا

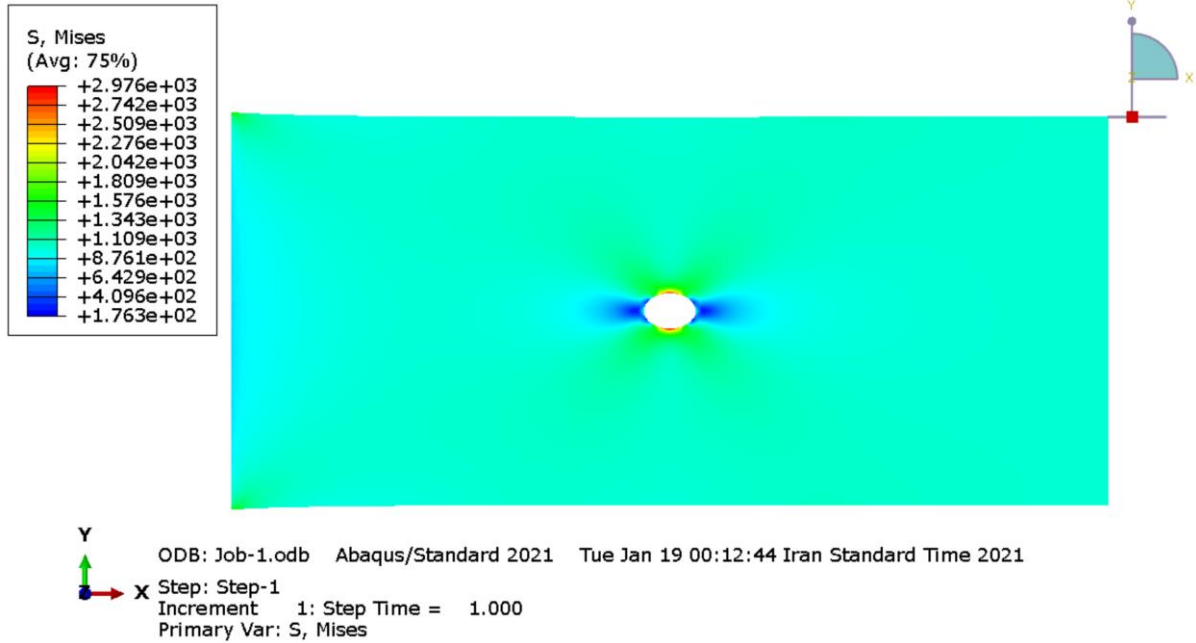
حسین شجاعی (۹۶۵۲۴۱۰۲۹)

پروژه طراحی اجزاء (۲)

تعیین ضریب تمرکز تنش هندسی در صفحه سوارخ دار تحت کشش با استفاده از نرم افزار آباکوس

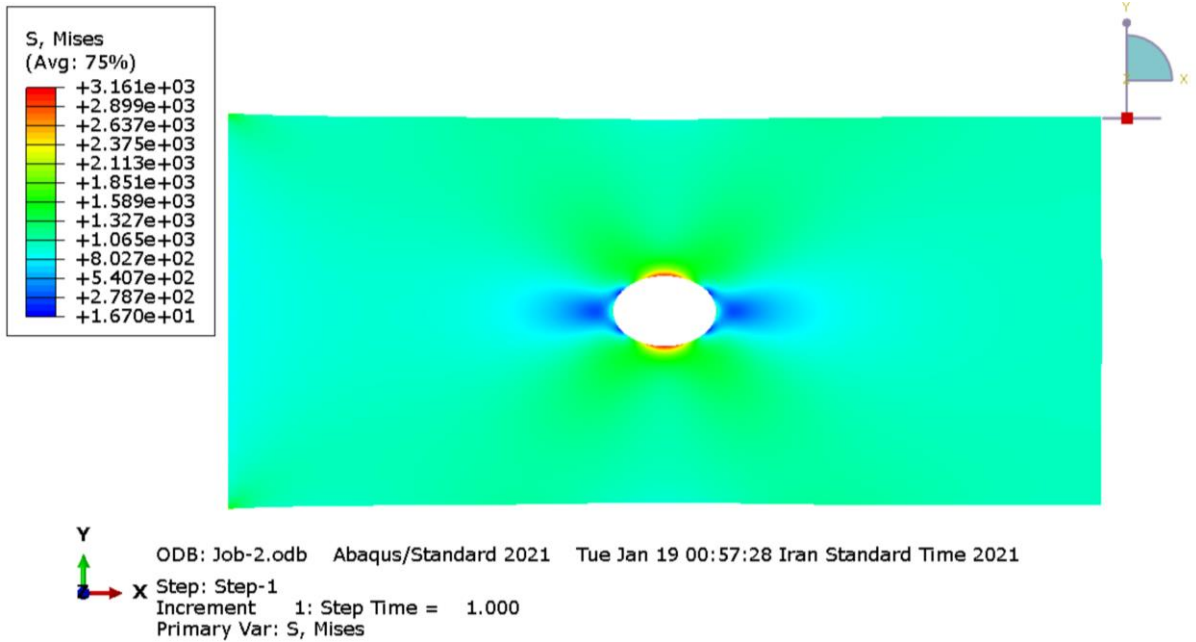
دکتر حسن بیگلری

$d/w=0.1$



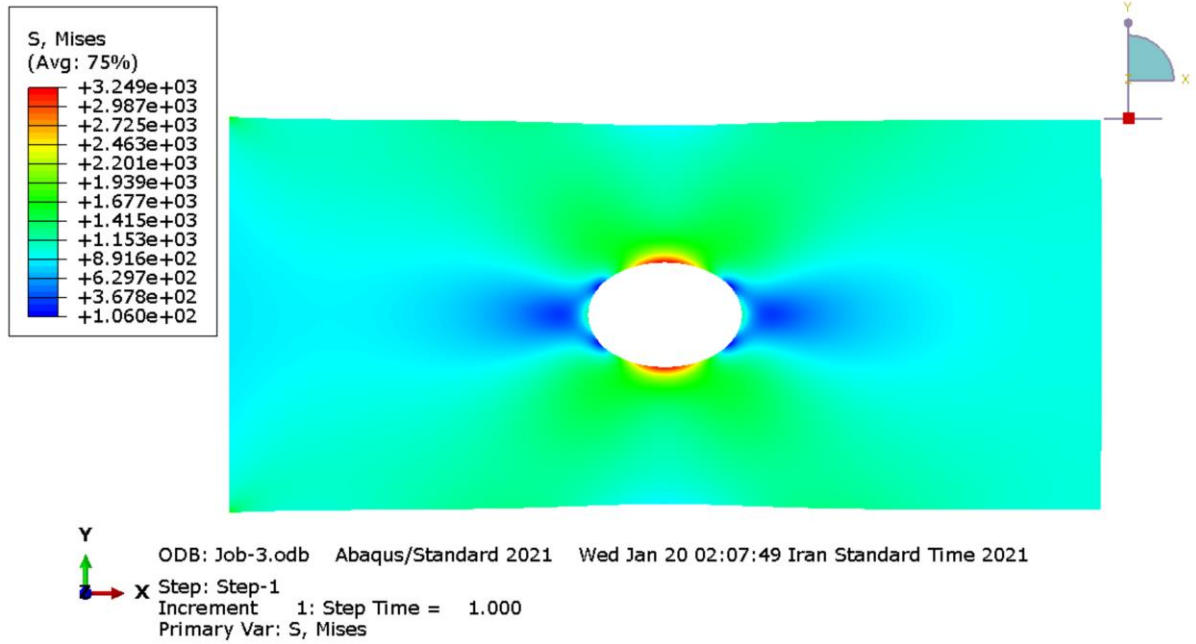
$$K_t = \frac{\sigma_{max}}{P \left(\frac{w}{w-d} \right)} \rightarrow K_t = \frac{2976}{1000 \left(\frac{100}{100-10} \right)} \rightarrow K_t = 2.678$$

$d/w=0.2$



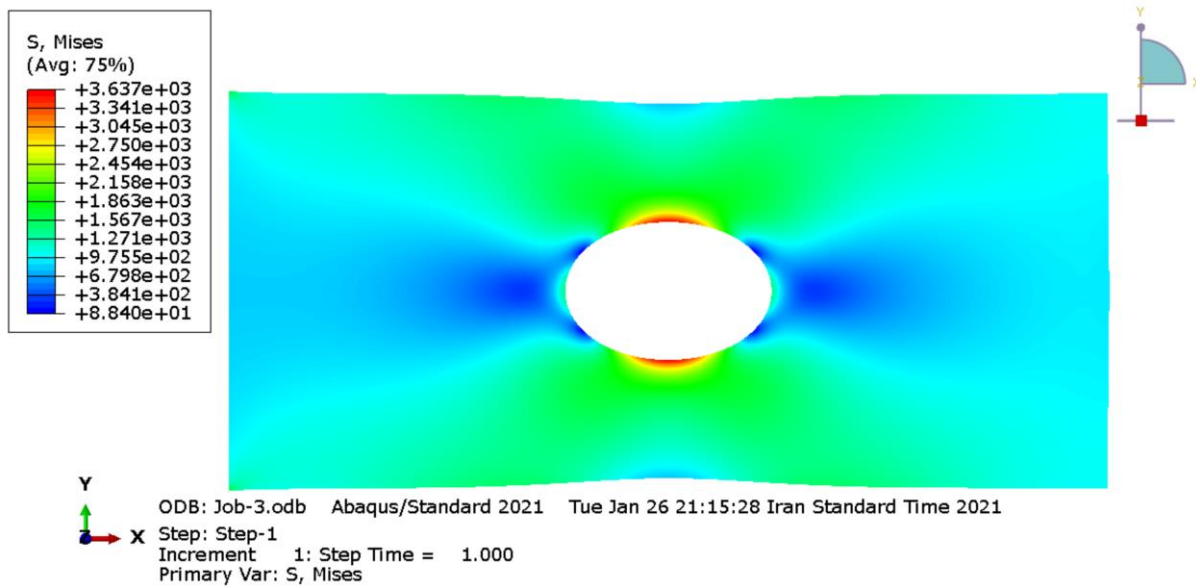
$$K_t = \frac{\sigma_{max}}{P \left(\frac{w}{w-d} \right)} \rightarrow K_t = \frac{3161}{1000 \left(\frac{100}{100-20} \right)} \rightarrow K_t = 2.528$$

d/w=0.3



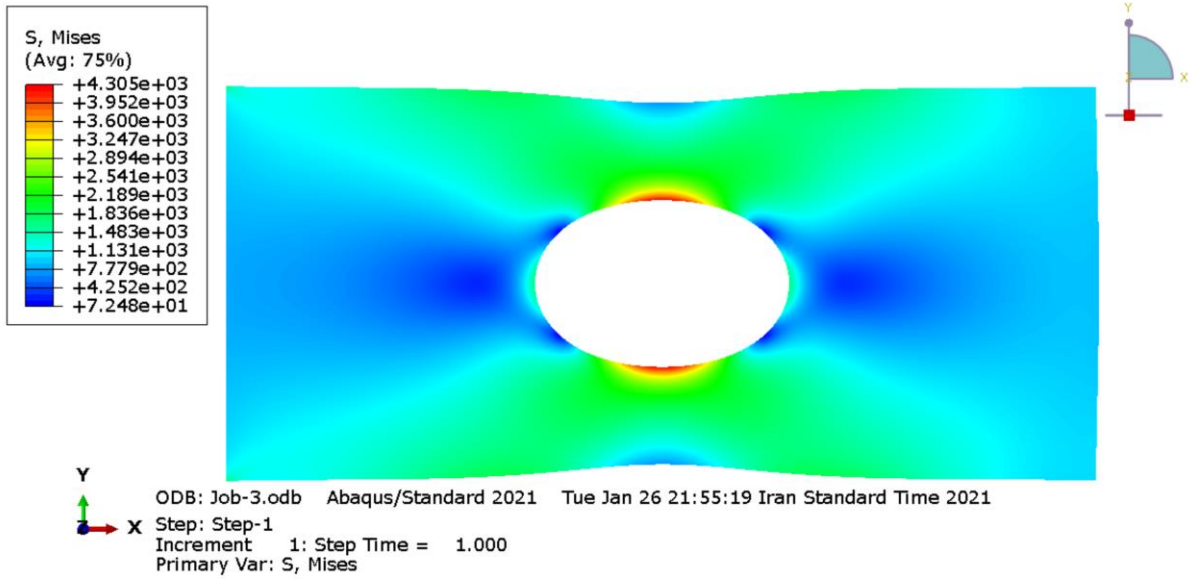
$$K_t = \frac{\sigma_{max}}{P\left(\frac{w}{w-d}\right)} \rightarrow K_t = \frac{3249}{1000\left(\frac{100}{100-30}\right)} \rightarrow K_t = 2.249$$

d/w=0.4



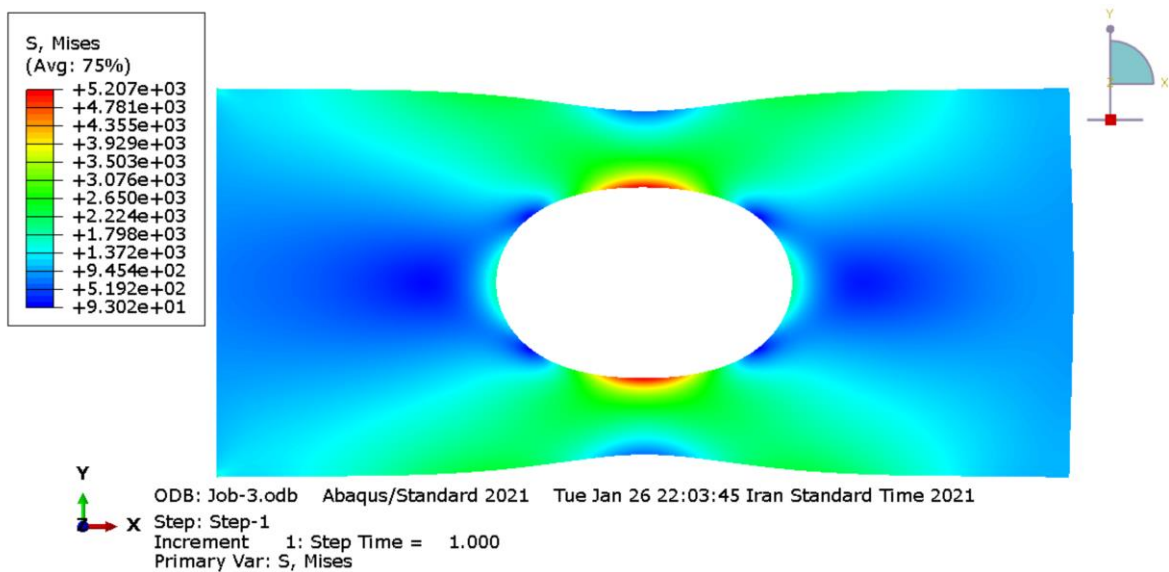
$$K_t = \frac{\sigma_{max}}{P\left(\frac{w}{w-d}\right)} \rightarrow K_t = \frac{3637}{1000\left(\frac{100}{100-40}\right)} \rightarrow K_t = 2.182$$

$d/w=0.5$



$$K_t = \frac{\sigma_{max}}{P \left(\frac{w}{w-d} \right)} \rightarrow K_t = \frac{4305}{1000 \left(\frac{100}{100-50} \right)} \rightarrow K_t = 2.153$$

$d/w=0.6$



$$K_t = \frac{\sigma_{max}}{P \left(\frac{w}{w-d} \right)} \rightarrow K_t = \frac{5207}{1000 \left(\frac{100}{100-60} \right)} \rightarrow K_t = 1.190$$

