

Section 8.4: cont'd

Thursday, March 22, 2018 12:29 PM

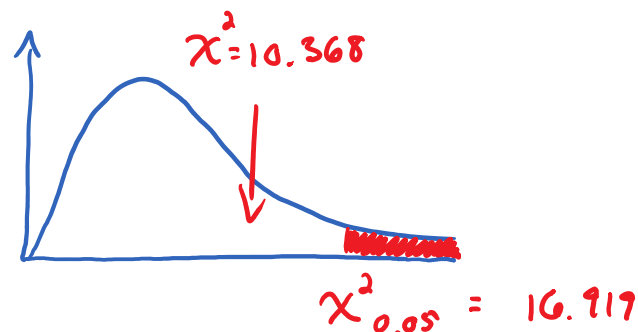
continuing the problem (Gunk Factory) from last time:

test statistic:

$$\begin{aligned}\chi^2 &= \frac{(n-1)s^2}{\sigma_0^2} \\ &= \frac{9(0.48)^2}{0.2} \\ &= 10.368\end{aligned}$$

acceptance/rejection:

95% confidence level



\therefore in acceptance region

conclusion:

At the 95% level, we can conclude that no adjustment of the machines is needed.