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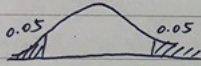
7.11

$$\textcircled{1} H_0: \frac{\sigma_1^2}{\sigma_2^2} = 1, H_1: \frac{\sigma_1^2}{\sigma_2^2} \neq 1$$

$$\textcircled{2} \alpha = 0.1$$

$$\begin{aligned} \textcircled{3} \text{接受域 } C &= \{F < F_{1-\frac{\alpha}{2}}(n_1-1, n_2-1) \text{ or } F > F_{\frac{\alpha}{2}}(n_1-1, n_2-1)\} \\ &= \{F < F_{0.95}(9, 7) \text{ or } F > F_{0.05}(9, 7)\} \\ &= \{F < 0.304 \text{ or } F > 3.68\} \end{aligned}$$

$$\textcircled{4} F = \frac{S_1^2}{S_2^2} = \frac{0.653^2}{0.627^2} = 1.085$$



$$F_{0.95}(9, 7) = 0.304 \quad F_{0.05}(9, 7) = 3.68$$