

P.253 例 7.11

$$(1) H_0: \frac{\sigma_1^2}{\sigma_2^2} = 1$$

$$H_1: \frac{\sigma_1^2}{\sigma_2^2} \neq 1$$

$$(2) \alpha = 0.1$$

$$(3) \text{棄卻域 } C = \left\{ F < F_{1-\frac{\alpha}{2}}(n_1-1, n_2-1) \text{ or } F > F_{\frac{\alpha}{2}}(n_1-1, n_2-1) \right\} \\ = \left\{ F < F_{0.95}(9, 7) \text{ or } F > F_{0.95}(9, 7) \right\} \\ = \left\{ F < 0.304 \text{ or } F > 3.68 \right\}$$

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

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