

例 9.7

$$300 + 390 + 570 + 540 = 1800$$

$$120^2 + 180^2 + 140^2 + \dots + 300^2 = 354400$$

$$SST = 354400 - \frac{1800^2}{10} = 30400$$

$$SSTR = \frac{300^2}{2} + \frac{390^2}{3} + \frac{570^2}{3} + \frac{540^2}{2} - \frac{1800^2}{10} = 25800$$

$$SSE = 30400 - 25800 = 4600$$

	自由度	
$SSTR = 25800$	3	$MSTR = \frac{25800}{3}$
$SSE = 4600$	6	$MSE = \frac{4600}{6}$
$SST = 30400$	9	

例 9.8

$$H_0: \alpha_1 = \alpha_2 = \alpha_3 = \alpha_4$$

H_1 : 至少有二种颜色对销售有影響

$$F = \frac{MSTR}{MSE} = \frac{8600}{767} = 11.2$$

$$F_{0.05}(3,6) = 4.76$$

$$F = 11.2 > 4.76$$

拒絕 H_0 , 包裝对銷售有影響