Q4: Ex 12, Pg 571

Albot Lockett
3254354 K44:fcunr
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$\bar{X}_1 = 462.\phi$ $\bar{X}_3 = 427.5$ $\bar{X}_5 = 532.1$

$\bar{X}_2 = 512.8$ $\bar{X}_4 = 469.3$

$$W = Q_{\alpha, I, I(J-1)} \cdot \sqrt{MSE/J}$$

$$= Q_{0.5, 5, 5(4-1)} \cdot \sqrt{272.8/4}$$

$$= 4.3699 \sqrt{272.8/4} = 36.\phi64$$

$\bar{X}_3$	$\bar{X}_1$	$\bar{X}_4$	$\bar{X}_2$	$\bar{X}_5$
427.5	462.ϕ	469.3	512.8	532.1

$\Delta \bar{X}_2, \bar{X}_5 = 19.3 < w$

$\Delta_{\bar{X}_3, \bar{X}_1} = 34.5 < w$ $\Delta \bar{X}_1, \bar{X}_4 = 7.3 < w$ $\Delta \bar{X}_4, \bar{X}_5 = 43.5 > w$

$\Delta \bar{X}_3 \bar{X}_4 = 41.8 > w$ $\Delta \bar{X}_1, \bar{X}_5 = 58.8 > w$

$\bar{X}_3$ and $\bar{X}_1$ do not differ significantly.

$\bar{X}_4$ and $\bar{X}_1$ do not differ significantly.

$\bar{X}_2$ and $\bar{X}_5$ do not differ significantly.

All other sample means differ significantly.