

國立高雄大學統計學研究所  
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題目：Efficient Run Orders for a Two-Factor Response Surface  
Experiment on a Correlated Process

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摘要：

The standard assumption in the design and analysis of response surface experiments is that the errors are uncorrelated with common variance. In practice however there may be serial dependence between the errors, in which case the efficiency of the design depends on the order in which the runs are carried out. We investigate the effect of run order on a two-factor response surface experiment when there is positive serial correlation, and recommend some particular run orders which are efficient under a wide range of conditions.

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