

1) Statistics - distributions - graphical analysis

2) Modeling \rightarrow LSF

Before	After
D VIF	Anova
$\text{Var}(\vec{x})$	Normal plot

3) Orthogonality \rightarrow Alias

4) PB / 2^n / 2^{n-p} / Rechtschaffner / $3/4$ design
Orthogonal $\rightarrow y = \alpha_0 + \sum \alpha_i x_i + \sum_{i < j} \alpha_{ij} x_i x_j$

5) 3^k , CC, D, BB, FE = 

6) Qualitative factors \rightarrow $\left\{ \begin{array}{l} \text{Fact} \\ \text{Latin, Graeco-L} \\ \text{split plot} \end{array} \right.$

7) Mixture, Scheffé, ternary
SLD, SSR, SSD