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Multifactor Analysis of Variance

11.1

Two-Factor ANOVA with

$$K_{ij} = 1$$

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When factor A consists of I levels and factor B consists of J levels, there are IJ different combinations (pairs) of levels of the two factors, each called a treatment. With K_{ij} = the number of observations on the treatment consisting of factor A at level i and factor B at level j , we restrict attention in this section to the case $K_{ij} = 1$, so that the data consists of IJ observations.

Our focus is on the fixed effects model, in which the only levels of interest for the two factors are those actually represented in the experiment.