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**Designs balanced for neighbor effects in circular blocks of size six.** (English) Zbl 1209.62175  
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Summary: The performance of a treatment is affected by the treatments applied to its adjacent plots, especially in the experiments of agriculture, horticulture, forestry, serology and industry. Neighbor designs ensure that treatment comparisons are least affected by neighbor effects, therefore, this is a rich field of investigation in statistics and in combinatorics. In this article, several series of neighbor balanced designs are considered in circular blocks of six units.

**MSC:**

**62K10** Statistical block designs

**62P12** Applications of statistics to environmental and related topics

Cited in **1** Review  
Cited in **4** Documents

**Keywords:**

circular blocks; initial blocks; neighbor balanced designs; neighbor effects

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