



# Introduction to Combinatorial Designs, Second Edition (Discrete Mathematics and Its Applications)

*W.D. Wallis*

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## **Introduction to Combinatorial Designs, Second Edition (Discrete Mathematics and Its Applications)**

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Combinatorial theory is one of the fastest growing areas of modern mathematics. Focusing on a major part of this subject, **Introduction to Combinatorial Designs, Second Edition** provides a solid foundation in the classical areas of design theory as well as in more contemporary designs based on applications in a variety of fields.

After an overview of basic concepts, the text introduces balanced designs and finite geometries. The author then delves into balanced incomplete block designs, covering difference methods, residual and derived designs, and resolvability. Following a chapter on the existence theorem of Bruck, Ryser, and Chowla, the book discusses Latin squares, one-factorizations, triple systems, Hadamard matrices, and Room squares. It concludes with a number of statistical applications of designs.

Reflecting recent results in design theory and outlining several applications, this new edition of a standard text presents a comprehensive look at the combinatorial theory of experimental design. Suitable for a one-semester course or for self-study, it will prepare readers for further exploration in the field.

To access supplemental materials for this volume, visit the author's website at <http://www.math.siu.edu/Wallis/designs>

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