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Titolo	Orthogonal Designs : Hadamard Matrices, Quadratic Forms and Algebras // by Jennifer Seberry
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1 Orthogonal Designs -- 2 Non-existence Results -- 3 Algebraic Theory of Orthogonal Designs.- 4 Orthogonal Designs Constructed via Plug-in Matrices -- 5 Amicable Orthogonal Designs.- 6 Product Designs and Repeat Designs (Gastineau-Hills) -- 7 Techniques -- 8 Robinson's Theorem.- 9 Hadamard Matrices and Asymptotic Orthogonal Designs -- 10 Complex, Quaternion and Non Square Orthogonal Designs -- Appendix: A Orthogonal Designs in Order 12,24,48 and 3.q -- B Orthogonal Designs in Order 20, 40 and 80 -- C Orthogonal Designs in Order 28 and 56 -- D Orthogonal Designs in Order 36, 72 -- E Orthogonal Designs in order 44 -- F Orthogonal Designs in Powers of 2 -- G Some Complementary Sequences -- H Product Designs -- References.

## Sommario/riassunto

Orthogonal designs have proved fundamental to constructing code division multiple antenna systems for more efficient mobile communications. Starting with basic theory, this book develops the algebra and combinatorics to create new communications modes. Intended primarily for researchers, it is also useful for graduate students wanting to understand some of the current communications coding theories.

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