

1. Record Nr.	UNINA9910797025803321
Autore	Morris Max <1950->
Titolo	Design of experiments : an introduction based on linear models / / by Max Morris
Pubbl/distr/stampa	Boca Raton, FL : , : Chapman and Hall/CRC, an imprint of Taylor and Francis, , 2010
ISBN	0-429-10898-2 1-4398-9490-6
Edizione	[First edition.]
Descrizione fisica	1 online resource (376 p.)
Collana	Chapman & Hall/CRC Texts in Statistical Science
Disciplina	519.5/7
Soggetti	Experimental design Linear models (Statistics)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front cover; Contents; Preface; CHAPTER 1: Introduction; CHAPTER 2: Linear statistical models; CHAPTER 2: Linear statistical models; CHAPTER 3: Completely randomized designs; CHAPTER 4: Randomized complete blocks and related designs; CHAPTER 5: Latin squares and related designs; CHAPTER 6: Some data analysis for CRDs and orthogonally blocked designs; CHAPTER 7: Balanced incomplete block designs; CHAPTER 8: Random block effects; CHAPTER 9: Factorial treatment structure; CHAPTER 10: Split-plot designs; CHAPTER 11: Two-level factorial experiments: basics CHAPTER 12: Two-level factorial experiments: blocking CHAPTER 13: Two-level factorial experiments: fractional factorials; CHAPTER 14: Factorial group screening experiments; CHAPTER 15: Regression experiments: first-order polynomial models; CHAPTER 16: Regression experiments: second-order polynomial models; CHAPTER 17: Introduction to optimal design; Appendix A: Calculations using R; Appendix B: Solution notes for selected exercises; References; Index; Back cover
Sommario/riassunto	Offering deep insight into the connections between design choice and the resulting statistical analysis, Design of Experiments: An Introduction Based on Linear Models explores how experiments are designed using the language of linear statistical models. The book

presents an organized framework for understanding the statistical aspects of experimental design as a whole within the structure provided by general linear models, rather than as a collection of seemingly unrelated solutions to unique problems.
