

1.	Record Nr.	UNINA990000647840403321
	Autore	Crowe, Sylvia
	Titolo	The landscape of power / Sylvia Crowe ; with diagrams by Michael Laurie
	Pubbl/distr/stampa	London : The architectural press, 1958
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2.	Record Nr.	UNINA9910143748103321
	Titolo	Applied optimal designs [[electronic resource] /] / edited by Martijn P.F. Berger, Weng Kee Wong
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	Descrizione fisica	1 online resource (313 p.)
	Altri autori (Persone)	BergerMartijn WongWeng Kee
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Formato	Materiale a stampa
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Applied Optimal Designs; Contents; List of Contributors; Editors' Foreword; 1 Optimal Design in Educational Testing; 1.1 Introduction; 1.1.1 Paper-and-pencil or computerized adaptive testing; 1.1.2 Dichotomous response; 1.1.3 Polytomous response; 1.1.4 Information functions; 1.1.5 Design problems; 1.2 Test Design; 1.2.1 Fixed-form test design; 1.2.2 Test design for CAT; 1.3 Sampling Design; 1.3.1 Paper-and-pencil calibration; 1.3.2 CAT calibration; 1.4 Future Directions; Acknowledgements; References; 2 Optimal On-line Calibration of Testlets; 2.1 Introduction; 2.2 Background 2.2.1 Item response functions 2.2.2 D-optimal design criterion; 2.3 Solution for Optimal Designs; 2.3.1 Mathematical programming model; 2.3.2 Unconstrained conjugate-gradient method; 2.3.3 Constrained conjugate-gradient method; 2.3.4 Gradient of $\log \det M(B; Q, x)$; 2.3.5 MCMC sequential estimation of item parameters; 2.3.6 Note on performance measures; 2.4 Simulation Results; 2.5 Discussion; Appendix A Derivation of the Gradient of $\log \det M(B; Q, x)$; Appendix B Projection on the Null Space of the Constraint Matrix; Acknowledgements; References 3 On the Empirical Relevance of Optimal Designs for the Measurement of Preferences 3.1 Introduction; 3.2 Conjoint Analysis; 3.3 Paired Comparison Models in Conjoint Analysis; 3.4 Design Issues; 3.5 Experiments; 3.5.1 Experiment 1; 3.5.2 Experiment 2; 3.6 Discussion; Acknowledgements; References; 4 Designing Optimal Two-stage Epidemiological Studies; 4.1 Introduction; 4.2 Illustrative Examples; 4.2.1 Example 1; 4.2.2 Example 2; 4.2.3 Example 3; 4.3 Meanscore; 4.3.1 Example of meanscore; 4.4 Optimal Design and Meanscore; 4.4.1 Optimal design derivation for fixed second stage sample size 4.4.2 Optimal design derivation for fixed budget 4.4.3 Optimal design derivation for fixed precision; 4.4.4 Computational issues; 4.5 Deriving Optimal Designs in Practice; 4.5.1 Data needed to compute optimal designs; 4.5.2 Examples of optimal design; 4.5.3 The optimal sampling package; 4.5.4 Sensitivity of design to sampling variation in pilot data; 4.6 Summary; 4.7 Appendix 1 Brief Description of Software Used; 4.7.1 R language; 4.7.2 S-PLUS; 4.7.3 STATA; 4.8 Appendix 2 The Optimal Sampling Package; 4.8.1 Illustrative data sets; 4.9 Appendix 3 Using the Optimal Package in R 4.9.1 Syntax and features of optimal sampling command 'budget' in R 4.9.2 Example; 4.10 Appendix 4 Using the Optimal Package in S-Plus; 4.11 Appendix 5 Using the Optimal Package in STATA; 4.11.1 Syntax and features of 'optbud' function in STATA; 4.11.2 Analysis with categorical variables; 4.11.3 Illustrative example; References; 5 Response-Driven Designs in Drug Development; 5.1 Introduction; 5.2 Motivating Example: Quantal Models for Dose Response; 5.2.1 Optimality criteria; 5.3 Continuous Models; 5.3.1 Example 3.1; 5.3.2 Example 3.2 5.4 Variance Depending on Unknown Parameters and Multi-response Models
Sommario/riassunto	There is an increasing need to rein in the cost of scientific study without sacrificing accuracy in statistical inference. Optimal design is the judicious allocation of resources to achieve the objectives of studies using minimal cost via careful statistical planning. Researchers and practitioners in various fields of applied science are now beginning to recognize the advantages and potential of optimal experimental

design. Applied Optimal Designs is the first book to catalogue the application of optimal design to real problems, documenting its widespread use across disciplines as diver

3. Record Nr.	UNINA9910827044803321
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Sommario/riassunto	The aim of this book is to provide research ethics committee members with a resource that focuses on research ethics issues in Africa.