

1. Record Nr.	UNISA996418199603316
Autore	Madhyastha N. R. Mohan
Titolo	A first course in linear models and design of experiments // N. R. Mohan Madhyastha, S. Ravi, A. S. Praveena
Pubbl/distr/stampa	Singapore : , : Springer, , [2020] ©2020
ISBN	981-15-8659-4
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XIV, 230 p. 26 illus.)
Disciplina	519.5
Soggetti	Linear models (Statistics) Experimental design
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Linear Estimation -- Linear Hypotheses and Their Tests -- Block Designs -- Row-Column Designs -- Factorial Experiments -- Analysis of Covariance -- Missing Plot Technique -- Split Plot Design.
Sommario/riassunto	This textbook presents the basic concepts of linear models, design and analysis of experiments. With the rigorous treatment of topics and provision of detailed proofs, this book aims at bridging the gap between basic and advanced topics of the subject. Initial chapters of the book explain linear estimation in linear models and testing of linear hypotheses, and the later chapters apply this theory to the analysis of specific models in designing statistical experiments. The book includes topics on the basic theory of linear models covering estimability, criteria for estimability, Gauss–Markov theorem, confidence interval estimation, linear hypotheses and likelihood ratio tests, the general theory of analysis of general block designs, complete and incomplete block designs, general row column designs with Latin square design and Youden square design as particular cases, symmetric factorial experiments, missing plot technique, analyses of covariance models, split plot and split block designs. Every chapter has examples to illustrate the theoretical results and exercises complementing the topics discussed. R codes are provided at the end of every chapter for at least one illustrative example from the chapter enabling readers to

write similar codes for other examples and exercise.

2. Record Nr.	UNINA9910784965403321
Autore	Larsson Leo <1972->
Titolo	Multiplicative inequalities of Carlson type and interpolation / / Leo Larsson, Lech Maligranda, Josip Pecaric, Lars-Erik Persson
Pubbl/distr/stampa	Singapore, : World Scientific, 2006
ISBN	1-281-91924-1 9786611919245 981-277-400-9
Descrizione fisica	1 online resource (217 p.)
Altri autori (Persone)	MaligrandaLech PecaricJosip E PerssonLars Erik <1944->
Disciplina	515/.26
Soggetti	Inequalities (Mathematics) Interpolation Numerical analysis
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 (p. 193-197) and index.
Nota di contenuto	Contents ; Preface ; 0. Introduction and Notation ; 0.1 Notational Conventions ; 0.1.1 Indices and Exponents ; 0.1.2 Constants ; 0.1.3 Measure Spaces and Related Spaces ; 0.1.4 Interpolation Spaces ; 0.1.5 Linear Mappings Between Normed Spaces ; 0.1.6 Other 1. Carlson's Inequalities 1.1 Carlson's Proof ; 1.2 Hardy's Proofs ; 1.3 An Alternate Proof ; 1.4 Carlson's Inequality for Finite Sums ; 2. Some Extensions and Complements of Carlson's Inequalities ; 2.1 Gabriel ; 2.2 Levin ; 2.3 Caton ; 2.4 Bellman 2.5 Two Discrete Carlson By-products 2.6 Landau and Levin-Steckin ; 2.7 Some Extensions

of the Landau and Levin-Steckin Inequalities  
; 2.7.1 The Case  $p = 1$  ; 2.7.2 General  $p$  ;  
2.8 Proofs ; 2.9 Levin-Godunova ; 2.10 More  
About Finite Sums ; 3. The Continuous Case  
; 3.1 Beurling  
3.2 Kjellberg 3.3 Bellman ; 3.4 Sz. Nagy  
; 3.5 Klefsjo ; 3.6 Hu ; 3.7 Yang-Fang ;  
3.8 A Continuous Landau Type Inequality ;  
3.9 Integrals on Bounded Intervals ; 4. Levin's  
Theorem ; 5. Some Multi-dimensional Generalizations  
and Variations ; 5.1 Some  
Preliminaries  
5.2 A Sharp Inequality for Cones in  $R^n$  5.3  
Some Variations on the Multi-dimensional Theme  
; 5.3.1 Kjellberg Revisited ; 5.3.2 Andrianov  
; 5.3.3 Pigolkin ; 5.3.4 Bertolo-Fernandez  
; 5.3.5 Barza et al ; 5.3.6 Kamaly ; 5.4 Some  
Further Generalizations  
5.4.1 A Multi-dimensional Extension of Theorem 3.6

## Sommario/riassunto

Collecting all the results on the particular types of inequalities, the coverage of this book is unique among textbooks in the literature. The book focuses on the historical development of the Carlson inequalities and their many generalizations and variations. As well as almost all known results concerning these inequalities and all known proof techniques, a number of open questions suitable for further research are considered. Two chapters are devoted to clarifying the close connection between interpolation theory and this type of inequality. Other applications are also included, in addition