

1. 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	; 4. Levin's
3.9 Integrals on Bounded Intervals	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