1. Record Nr.   UNINA9910451110003321

   Titolo   Multiplicative inequalities of Carlson type and interpolation [[electronic resource] /] / Leo Larsson ... [et al.]

   Pubbl/distr/stampa New Jersey, : World Scientific, c2006

   ISBN   1-281-91924-1
                       9786611919245
                       981-277-400-9

   Descrizione fisica 1 online resource (217 p.)

   Altri autori (Persone) LarssonLeo <1972->

   Disciplina   515/.26

   Soggetti   Inequalities (Mathematics)
                       Interpolation
                       Numerical analysis
                       Electronic books.

   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

| 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 |