Record Nr. UNINA9910484298103321 Autore Kresin Gershon Titolo Sharp real-part theorems: a unified approach // Gershon Kresin, Vladimir Maz'ya; translated from Russian and edited by T. Shaposhnikova Berlin; ; Heidelberg:,: Springer-Verlag,, 2007 Pubbl/distr/stampa **ISBN** 1-280-80493-9 9786610804931 3-540-69574-5 Edizione [1st ed. 2007.] Descrizione fisica 1 online resource (152 p.) Lecture Notes in Mathematics; ; Volume 1903 Collana Disciplina 515.9 Soggetti Analytic functions Approximation theory 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. 129-133) and index. Nota di contenuto Estimates for analytic functions bounded with respect to their real part -- Estimates for analytic functions with respect to the Lp-norm of R?f on the circle -- Estimates for analytic functions by the best Lpapproximation of Rf on the circle -- Estimates for directional derivatives of harmonic functions -- Estimates for derivatives of analytic functions -- Bohr's type real part estimates -- Estimates for the increment of derivatives of analytic functions. This volume contains a coherent point of view on various sharp Sommario/riassunto pointwise inequalities for analytic functions in a disk in terms of the real part of the function on the boundary circle or in the disk itself. Inequalities of this type are frequently used in the theory of entire functions and in the analytic number theory. Rich opportunities are anticipated to extend these inequalities to analytic functions of several

complex variables and solutions of partial differential equations.