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Nota di contenuto	Front matter -- Preface / Pavlovi, Miroslav -- Contents -- 1. The Poisson integral and Hardy spaces -- 2. Subharmonic functions and Hardy spaces -- 3. Subharmonic behavior and mixed norm spaces -- 4. Taylor coefficients with applications -- 5. Besov spaces -- 6. The dual of H^1 and some related spaces -- 7. Littlewood-Paley theory -- 8. Lipschitz spaces of first order -- 9. Lipschitz spaces of higher order -- 10. One-to-one mappings -- 11. Coefficients multipliers -- 12. Toward a theory of vector-valued spaces -- A. Quasi-Banach spaces -- B. Interpolation and maximal functions -- Bibliography -- Index
Sommario/riassunto	This monograph contains a study on various function classes, a number of new results and new or easy proofs of old results (Fefferman-Stein theorem on subharmonic behavior, theorems on conjugate functions and fractional integration on Bergman spaces, Fefferman's duality theorem), which are interesting for specialists; applications of the Hardy-Littlewood inequalities on Taylor coefficients to (C, λ) -maximal theorems and (C, λ) -convergence; a study of BMOA, due to Knese, based only on Green's formula; the problem of membership of singular inner functions in Besov and Hardy-Sobolev spaces; a full discussion of g -function (all $p > 0$) and Calderón's area theorem; a new proof, due to Astala and Koskela, of the Littlewood-Paley inequality for univalent functions; and new results and proofs on Lipschitz spaces, coefficient multipliers and duality, including compact multipliers and multipliers on spaces with non-normal weights. It also contains a discussion of

analytic functions and lacunary series with values in quasi-Banach spaces with applications to function spaces and composition operators. Sixteen open questions are posed. The reader is assumed to have a good foundation in Lebesgue integration, complex analysis, functional analysis, and Fourier series. Further information can be found at the author's website at <http://poincare.matf.bg.ac.rs/~pavlovic>.
