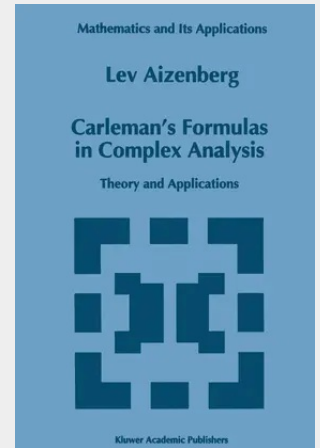


Carleman's Formulas in Complex Analysis

Theory and Applications

Integral representations of holomorphic functions play an important part in the classical theory of functions of one complex variable and in multidimensional complex analysis (in the later case, alongside with integration over the whole boundary ∂D of a domain D we frequently encounter integration over the Shilov boundary $\bar{S} = S(D)$). They solve the classical problem of recovering at the points of a domain D a holomorphic function that is sufficiently well-behaved when approaching the boundary ∂D , from its values on ∂D or on S . Alongside with this classical problem, it is possible and natural to consider the following one: to recover the holomorphic function in D from its values on some set $M \subset \partial D$ not containing S . Of course, M is to be a set of uniqueness for the class of holomorphic functions under consideration (for example, for the functions continuous in D or belonging to the Hardy class $HP(D)$, $p \sim 1$).

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