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## On an Identity for the Chebychev Functional and Some Ramifications

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**Abstract:** An identity for the Chebychev functional is presented in which a Riemann-Stieltjes integral is involved. This allows bounds for the functional to be obtained for functions that are of bounded variation, Lipschitzian and monotone. Some applications are presented to produce bounds for moments of functions about a general point  $g$  and for moment generating functions.



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