

# SOME PROBLEMS IN APPROXIMATION BY LINEAR POSITIVE OPERATORS

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**Abstract.** The research results presented here are concerned with the approximation by certain classes of positive linear operators. In the first part of this presentation we are interested in how non-multiplicative can a linear functional be. In order to give an answer to this question, we considered the generalized Chebyshev functional

$$T_L(f, g) := L(f \cdot g) - L(f) \cdot L(g),$$

for a positive linear functional  $L$  and we obtained the estimates as follows

$$|T_L(f, g)| \leq \mathcal{E}(L, f, g).$$

These inequalities have been applied in the case of known operators. The estimates for the differences of positive linear operators is another topic which will be presented.