

## ON THE STABILITY OF FUNCTIONAL EQUATIONS WITH SQUARE-SYMMETRIC OPERATION

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*Abstract.* In this paper, we obtain the modified Hyers-Ulam-Rassias stability for the family of functional equations  $f(x \circ y) = H(f(x), f(y))$  ( $x, y \in S$ ), where  $H$  is a homogeneous function and  $\circ$  is a square-symmetric operation on the set  $S$ . As a consequence we obtain the Hyers-Ulam stability of its functional equation.

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