Hyers-Ulan stability of functional equations with a square-symmetric operation
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The stability of the functional equation $f(x \circ y) = H(f(x), f(y))$ $(x, y \in S)$ is investigated, where H is a homogeneous function and $\circ$ is a square-symmetric operation on the set S. The results presented include and generalize the classical theorem of Hyers obtained in 1941 on the stability of the Cauchy functional equation.