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Generalized orthogonal stability of some functional equations

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We deal with a conditional functional inequality $\alpha\beta\gamma\|f(x+y)-f(x)-f(y)\|\leq\epsilon(\|x\|^p+\|y\|^p)$, where α is a given orthogonality relation, ϵ is a given nonnegative number, and p is a given real number. Under suitable assumptions, we prove that any solution f of the above inequality has to be uniformly close to an orthogonally additive mapping g , that is, satisfying the condition $\alpha\beta\gamma g(x+y)=g(x)+g(y)$. In the sequel, we deal with some other functional inequalities and we also present some applications and generalizations of the first result.

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