

SOLUTION AND STABILITY OF A FUNCTIONAL EQUATION ORIGINATING FROM A CHEMICAL EQUATION

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Abstract

In this paper, the author has proved the Hyers - Ulam - Rassias stability of a new type of the functional equation

$$f(x) + f(x) = f(2x)$$

which is originating from a chemical equation. An application of this functional equation is also studied.

Key Words and Phrases : *Additive functional equations, Hyers - Ulam - Rassias stability, Chemical reaction.*

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