HYERS–ULAM–RASSIAS STABILITY FOR A CLASS OF NONLINEAR VOLTERRA INTEGRAL EQUATIONS

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Communicated by S.-M. Jung

Abstract. The paper is devoted to the study of Hyers, Ulam and Rassias types of stability for a class of nonlinear Volterra integral equations. Both Hyers–Ulam–Rassias stability and Hyers–Ulam stability are obtained for such a class of Volterra integral equations when considered on a finite interval. In addition, for corresponding Volterra integral equations on infinite intervals the Hyers–Ulam–Rassias stability is also obtained.

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