

## STABILITY ANALYSIS OF FAST NUMERICAL METHODS FOR VOLTERRA INTEGRAL EQUATIONS\*

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**Abstract.** In this paper the stability properties of fast numerical methods for Volterra integral equations of Hammerstein type with respect to significant test equations are investigated.

**Key words.** fast numerical methods, Volterra Runge-Kutta methods, collocation methods, numerical stability

**AMS subject classifications.** 65R20, 45D05, 44A35, 44A10

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