

APPROXIMATE SOLUTION OF A NONLINEAR INTEGRO-DIFFERENTIAL SYSTEM
OF VOLTERRA TYPE

(A b s t r a c t)

The nonlinear integro-differential system of Volterra type (1) is considered and under hypotheses (8) a class of Runge-Kutta type formulas of the form (4), (5), of order $O(h^4)$ for system (1) is derived.