SOME RUNGE-RUTTA-FEHLBERG FORMULAS FOR THE NONLINEAR INTE-GRAL EQUATION OF VOLTERRA TYPE

(Abstract)

The nonlinear integral equation of Volterra type (1) is considered and the ideia of E. Fehlberg transformation from [2], [3] and [4] is used. A new unknown function y(x) is introduced wich is given by an "m length" transformation (2) and a new integral equation (4) is obtained. For the equation (4) a class of Runge-Kutta type formulas (6), (6') of order m + 3 is derived.