

**Yalçınbaş, Salih**

**Taylor polynomial solutions of nonlinear Volterra-Fredholm integral equations.** (English)

Zbl 1025.45003

Appl. Math. Comput. 127, No. 2-3, 195-206 (2002).

Summary: The method of *R. P. Kanwal* and *K. C. Liu* for the solution of Fredholm integral equations [Int. J. Math. Educ. Sci. Technol. 20, No. 3, 411-414 (1989; Zbl 0683.45001)] is applied to certain nonlinear Volterra-Fredholm integral equations. In addition, examples that illustrate the pertinent features of the method are presented, and the results of study are discussed.

**MSC:**

45G10 Other nonlinear integral equations

45L05 Theoretical approximation of solutions to integral equations

Cited in **73** Documents

**Keywords:**

Taylor polynomial solutions; nonlinear Volterra-Fredholm integral equations

**Full Text:** [DOI](#)

**References:**

- [1] Kanwal, R.P.; Liu, K.C., A Taylor expansion approach for solving integral equations, Int. J. math. educ. sci. technol., 20, 3, 411, (1989) · Zbl 0683.45001
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- [5] S. Yalçınbaş, Taylor polynomial solutions of Volterra-Fredholm integral and integro-differential equations, Ph.D. Thesis, Dokuz Eylül University Graduate School of Natural and Applied Sciences, 1998

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