

Abstract Volterra Integro-Differential Equations

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integro- differential equation - encyclopedia of - is called a linear integro-differential equation; is a parameter. If in (1) the function for , then (1) is called an integro-differential equation with variable

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general linear methods for volterra integro- - GENERAL LINEAR METHODS FOR VOLTERRA INTEGRO-DIFFERENTIAL EQUATIONS WITH MEMORY A new class of numerical methods for Volterra integro-differential equations with

computational solution of a fractional integro- - To the best of our knowledge, the Volterra-integro differential equations considered in this paper was not studied with any method in the literature.

an algorithm for solving the high-order nonlinear - An algorithm for solving the high-order nonlinear Volterra-Fredholm integro-differential equation with mechanization

stochastic volterra integro-differential equations - Abstract. We consider the reliability of some numerical methods in preserving the stability properties of the linear stochastic functional differential equation $t x$

advances in difference equations | full text | - We establish the existence and uniqueness of solutions for a class of nonlinear Volterra integral and integro-differential equations using fixed-point theorems for a

solving a system of linear fredholm fractional - Homotopy perturbation method has been employed to obtain a solution of a system of linear Fredholm fractional integro-differential equations: (These equations cannot

solving nonlinear volterra fredholm integro- - In this paper, a nonlinear Volterra Fredholm integro-differential equation is solved by using He's variational iteration method. The approximate solution of this

numerical solutions for volterra integro- - EJDE-2015/28 VOLTERRA INTEGRO-DIFFERENTIAL EQUATIONS 11 [17] S. Youse , M. Razzaghi; Legendre wavelets method for the nonlinear Volterra-Fredholm in-

solution of volterra integro-differential - Kilbas, Anatoly A.; Saigo, Megumi; Saxena, R.K. Solution of Volterra Integro-Differential Equations with Generalized Mittag-Leffler Function in the Kernels.

petrov--galerkin methods for linear volterra - In this paper we study a class of Petrov--Galerkin solutions that have global optimal convergence rates for linear Volterra integro-differential equations. These

volterra integro-differential equations - - Volterra studied the hereditary influences when he was examining a population growth model. The research work resulted in a specific topic, where both differential

numerical solution of a system of two first order - numerical solution of a system of two first order volterra integro-differential equations arising in ultimate ruin theory athena makroglou + , department of

the application of second derivative methods to - Scitation: The application of second derivative methods to solving Volterra integro-differential equations

volterra integral and differential equations, - Liapunov's direct method is gently introduced and applied to many particular examples in ordinary differential equations, Volterra integro-differential equations,

stability of numerical methods for volterra - CiteSeerX - Scientific documents that cite the following paper: Stability of numerical methods for Volterra integrodifferential equations

volterra-fredholm integro- differential equations - The Volterra-Fredholm integro-differential equations [1 4] appear in two types, namely:

volterra equation - encyclopedia of mathematics - Volterra equations may be regarded as a special case of the Cauchy problem for an ordinary differential equation may be readily reduced to the problem of solving

numerical solution of a singularly perturbed - Singularly perturbed Volterra integro-differential equations arise in many physical and biological problems. Among these are diffusion-dissipation processes

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numerical methods for nonlinear volterra integro- - SIAM Journal on Numerical Analysis 23:2, 423-452. (1982) A method for the solution of a class of singular volterra integro-differential equations.

srivastava , saxena : some volterra-type - Srivastava, H.M.; Saxena, R.K. Some Volterra-Type Fractional Integro-Differential Equations with a Multivariable Confluent Hypergeometric Function as Their Kernel.

solving volterra integro- differential equation by - 2522 G. Mehdiyeva et al. : Solving Volterra Integro-Differential Equation construct different methods for solving of the problem (1). Note that the problem (1) is

numerical solution of nonlinear volterra fredholm - The aim of this paper is to present an efficient analytical and numerical procedure for solving the high-order nonlinear Volterra Fredholm integro-differentia

linear volterra integro- differential equation and - In this paper we present a numerical method to approximate the solution of the linear Volterra integro-differential equation. By making use of the expression of

singular volterra integro-differential equations - SINGULAR VOLTERRA INTEGRO-DIFFERENTIAL EQUATIONS and (1.12) $K_1(t, s) = a(t) + K(t, r)dr, 0 < s < t < T$. The second reformulation is based on the integration of both

the stochastic -method for nonlinear stochastic - Therefore, the adaptation of such methods for stochastic Volterra integro-differential equations is worth studying in the future. Conflict of Interests.

integro- differential equation - wikipedia, the - In mathematics, an integro-differential equation is an equation that involves both integrals and derivatives of a function. Contents 1 General first order linear

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theory of functionals and of integral and integro - Volterra's Equations of the Second Kind: 43: 4: Integro-Differential Equations obtained from the Theory of Permutable Functions of the Second Kind: 145: 5:

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