

# Abstract Volterra Integro-Differential Equations

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**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-

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

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

**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

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

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

**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

**abstract volterra integro-differential equations** - The theory of linear Volterra integro-differential equations has been developing rapidly in the last three decades. This book provides an easy to read concise

**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

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

**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

**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

**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,

**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

**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

**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

**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.

**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

**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

**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

**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:

**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

**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

**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.

**abstract volterra integro-differential equations** - Get this from a library! Abstract Volterra integro-differential equations. [Marko Kosti ]

**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  $t x$

**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.

**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.

**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.

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