

Abstract Volterra Integro-Differential Equations .pdf

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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,

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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-

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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 solution of a system of two first order

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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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Features Provides an easy-to-read, concise introduction to the theory of ill-posed abstract Volterra Integro-differential equations Devotes a major part of

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Singular volterra integro-differential equations

SINGULAR VOLTERRA INTEGRO-DIFFERENTIAL EQUATIONS and (1.12) $K_1(t, s) = a(t) + K(t, r)dr, 0$

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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

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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

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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.

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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-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

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

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.

The application of second derivative methods to

Scitation: The application of second derivative methods to solving 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.

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

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

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:

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

Stability of numerical methods for volterra

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

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 $t x$

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

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An algorithm for solving the high-order nonlinear

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

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

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.

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