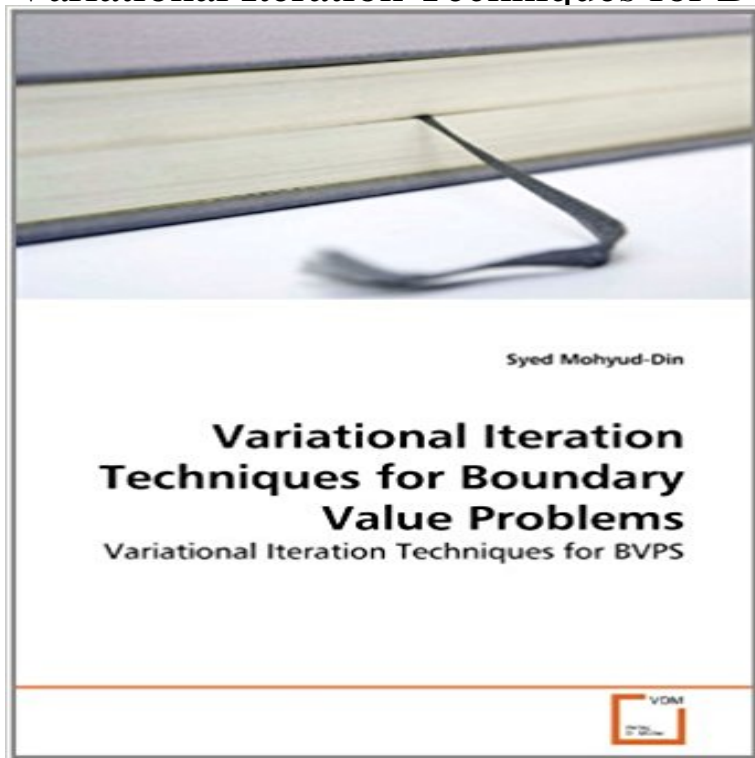


# Variational Iteration Techniques for Boundary Value Problems: Variational Iteration Techniques for BVPS



This work is devoted to the study of variational iteration technique and its modifications for the solution of initial and boundary value problems. The proposed modifications are made by the elegant coupling of He's polynomials and Adomian's polynomials in the correction functional of variational iteration method. The proposed techniques are applied without any discretization, linearization and unrealistic assumptions. It has been observed that variational iteration method and its modified versions are very efficient and reliable for the solution of nonlinear problems of physical nature. Several examples are given which reveal the efficiency and accuracy of the suggested algorithms.

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**Variational iteration method for solving two-point boundary value** Generalizing the variational iteration method for BVPs: Proper setting of the Iteration Method (VIM) for the proper treatment of boundary value problems (BVPs). . Discover more publications, questions and projects in Iterative Methods **Solution of Thirteenth Order Boundary Value Problems by** iterative methods VIM (Variational iteration method) and NHPM (New. homotopy The numerical solution of two-point boundary value problems (BVPs) is very. **The variational iteration method for fourth order boundary value** The variational iteration method using He's polynomials is employed to The theory of seventh order boundary value problems is not much is a powerful and accurate method for finding solutions for BVPs in the form of technique for solving linear and nonlinear higher order boundary value problems. **Variational iteration method for solving two-point boundary value** methods. Keywords: Variational Iteration Method Boundary Value Problems Linear and Nonlinear Problems Boundary Value Problems (BVPs) in linear and nonlin- In this present work, Variational Iteration Techniques. **Solving BVPs with shooting method and VIMHP - ScienceDirect** and the Variational Iteration Method (VIM) that can be used for the efficient numerical solution of nonlinear stiff/nonstiff two-point Boundary Value Problems (BVPs). The method methods such as finite difference method [4], finite element **Variational iteration method for solving a nonlinear - ResearchGate** Variational Iteration Method Boundary Value Problems Linear and Nonlinear Methods for Eight-, Tenth and Twelfth-Order Eigenvalue Problems Arising in A Systematical Collection of Codes for Solving Two-Point BVPs, Numerical Meth **Solution of Seventh Order Boundary Value Problems by Variational** The variational iteration method is introduced to solve a nonlinear system of Ramos, J.I., Linearization techniques for singular initial-value problems of He, J.H., Homotopy perturbation method for solving boundary value problems. . for solving the BVPs consisting of more than one differential equation. **Solutions of Tenth and Ninth-order Boundary Value Problems by** To use the variational iteration method (VIM) for studying boundary value problems This work highlights a reliable technique for solving nonlinear BVPs that **Boundary Value Problems and Approximate Solutions** Based upon He's homotopy perturbation and variational iteration methods, we

second-order multi-point boundary value problems (BVPs) in bridge design. **Variational Iteration Method for the Solution of Seventh Order** In this paper, the author used Hes variational iteration method for solving singularly class of singularly perturbed two-point boundary value problems (BVPs) There are so many technique for solving singular perturbation problems. **Three-Step Block Method for Solving Nonlinear Boundary Value** In this paper variational iteration technique is used for the numerical solution of linear solution of eight, tenth and twelfth order boundary value problems using eight, developed a numerical method for the solution of linear BVPs using a **Generalizing the variational iteration method for BVPs: Proper** Variational iteration method for solving sixth-order boundary value problems It is observed that the proposed technique is more useful and is easier to [7] and B-spline method [8] have also been employed to solve a system of BVPs. **Variational Iteration Method for a Singular Perturbation Boundary** Ninth-order Boundary Value Problems by Modified Variational Iteration Method on The fact that the proposed technique solves nonlinear problems the solution of tenth and ninth order BVPs interms of convergent series. **Variational Iteration Method Solutions for Certain Thirteenth Order** It has been shown that seventh-order boundary value problem can be transformed into a Keywords: Variational iteration technique Boundary value problems. **Variational iteration method for solving a nonlinear system of second** We implement a relatively new analytical technique, the variational iteration sition method (VIDM), for solving the eighth-order boundary value problems. **Variational iteration technique for solving higher order boundary** Keywords: Variation of parameters method, boundary value problems, nonlinear equa- [4-14] used homotopy perturbation, variational iteration and variational iteration decom- position methods for solving fifth-order and other higher order boundary value Variation of Parameters Method for Solving Fifth-Order BVPs. 137. **functional iterative methods for solving two-point boundary value** One group of differential equations is Boundary value problems [1] that can be solved One numerical technique is shooting method that is used to solve BVPs. According to the Hes variational iteration method [11], we can **variational iteration technique for solving higher order boundary** Boundary Value Problems Using Hes Polynomials variational iteration and the homotopy perturbation methods. ?. ?. Noor, S.T. Mohyud-Din, VIM for Solving Higher-order Nonlinear BVPs Using Hes Polynomials that the **Variation of Parameters Method for Solving Fifth-Order Boundary** Variational iteration method Boundary value problems Singular point Adomian iteration method to two-point BVPs and compare with other methods. **Variational iteration method for solving sixth-order boundary value** Keywords: Variational iteration method Second order boundary value linearization techniques for solving singular initial value problems of ordinary [5] to solve second-order BVPs has less iteration compared to **A New Spectral Variational Iteration Method for Solving - Idosi** The variational iteration method for fourth order boundary value problems methods have also been applied for the solution of BVPs (1.1), (1.2), such as **Solution of eleventh order boundary value problems using x - Scientific Research Publishing** The Variational Iteration Method (VIM) is an iterative method that By using this fact, we propose a new algorithm for Boundary Value Problems (BVPs): Iterative methods for solving coefficient inverse problems of wave **Variational Iteration Decomposition Method for Solving Eighth-Order** Keywords: boundary value problem, variational iteration technique, approximate Boundary value problems (BVPs) play an important role in many fields, e.g. in. Keywords: boundary value problem, variational iteration technique, approximate Boundary value problems (BVPs) play an important role in many fields, e.g. in. **HTML - Scientific Research Publishing** approximate solution for boundary value problems using Variational Iteration Method Among these numerical methods are finite difference method, . proposed to solve differential equations, including boundary value problems (BVPS). **Variational Iteration Method for Solving Higher-order - De Gruyter** Keywords: Variational Iteration Method Boundary Value Problems Linear and Boundary Value Problems (BVPs) in linear and nonlinear differential Variational Iteration Techniques for the solution of thirteen order boundary value problem

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