
Modifications Of Homotopy Analysis Method For Differential Equations

solution of initial value problem of bratu - type equation ... - solution of initial value problem of bratu - type equation using modifications of homotopy perturbation method physics communications, volume 181, no. 11, pp. 1868 - 1872, 2010. **solution of initial value problem of bratu - type equation ...** - modifications to solve bratu - type equation [16-17]. in 1999, j. he presented perturbation technique coupled with the homotopy technique, it was known as hpm [18]. recently, the homotopy ... **modifications of homotopy analysis method for differential ...** - modifications of homotopy analysis method for differential equations modifications of homotopy analysis pdf modifications of homotopy analysis method for differential equations brouwer's fixed-point theorem is a **solutions of nonlinear singular initial value problems by ...** - in this paper we present an efficient modification of the homotopy perturbation method. we apply the we apply the method to solve a class of singular initial value problems (ivps) in the second-order ordinary **on a new modification of homotopy analysis method for ...** - the homotopy analysis technique (ham), proposed by liao [14], is a powerful technique to solve non-linear problems. in recent years, this method has been effectively applied to numerous problems in science and engineering [15-27]. all of these successful applications verified the validity, effectiveness and flexibility of the ham. recently, some modifications of ham have ... **modified homotopy perturbation method for solving ...** - modified homotopy perturbation method (hpm) was used to solve the hypersingular integral equations (hsies) of the first kind on the interval $[-1,1]$ with the assumption that the kernel of the hypersingular integral is constant on the diagonal of the domain. **modified homotopy perturbation method for solving delay ...** - the homotopy perturbation method and its modifications have been successfully used for solving many application problems. however, difficulties may arise in dealing with obtaining suitable accuracy in large domains. **modified bounded newton homotopy method in solving ...** - power of the modifications is based on the variables mapping strategy enabling the flexible tracking of the homotopy path very near the problem domain boundaries. the suggested modified bounded homotopies have been extended to apply also when large and sparse non-linear equation sets are being solved. the methods developed offer the possibility to track the homotopy path in real space and ... **usage of the homotopy analysis method for solving the ...** - various modifications of homotopy analysis method have been also elaborated, for example, the spectral homotopy analysis method [37], the optimal homotopy analysis method [19] and the optimal homotopy asymptotic method [22], **homotopy type of path spaces - ams** - homotopy type of path spaces 261 in the next section we give the definitions and modifications needed to extend the fundamental theorem of morse theory to the two endmanifold case. **proper homotopy and immersion theory - core** - a proper homotopy in the sense of (ii) satisfies the following property: (ii) (a). let h_t be the corresponding map at stage t , $0 \leq t \leq 1$. then $h_t : a \rightarrow b$ is a proper map. some writers take (ii) (a) to be the definition of a proper homotopy. examples show that these definitions do differ; in the case of immersion theory into euclidean space, however, ... **an effective embed algorithm for newton fixed-point ...** - newton fixed-point homotopy method (nfph) has been proposed to find the dc operating points of mos transistor circuits. this method is not only efficient but also globally convergent for any initial point. however, how to effectively implement the proposed mos nfph method has been an open problem. in this paper, an effective and practical "embed" implementation algorithm is proposed for ... **a homotopy-projection method for the parameter estimation ...** - of homotopy-projection method, and constructs a practical method. in section 3, in section 3, a model of an elliptical equation is described and some numerical simulations are made. **latest developments in nonlinear sciences** - the major focus of our study will be variational iteration (vim) and its modifications, homotopy perturbation (hpm), parameter expansion and exp-function methods. the above mentioned schemes are highly accurate, extraordinary efficient, capable to cope with the versatility of the physical problems and are being used to solve a wide class of nonlinear problems. several examples are given which ...

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