

Maple Code For Homotopy Analysis Method

homotopy analysis method for axisymmetric flow of a power ... - parameters in the problem. a relatively recent method called the homotopy analysis method is useful for developing solutions that are valid even for moderate to large values of parameters. in this paper, we apply the homotopy analysis method to the problem of the axisymmetric flow of a power law fluid past a stretching sheet in order to develop

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a modified homotopy analysis method for solving boundary ... - ten in maple 13 on a pc with an intel core 2 quad 2.66 ghz cpu. the variable digits in the experiments is to control the number of digits when calculating with soft-ware floating point numbers in maple. ... a modified homotopy analysis method for solving boundary layer equations author:

an exploration of homotopy solving in maple - oped a multivariate \tilde{A} - \hat{A} - \hat{A} fixed step homotopy method in maple. we have implemented a variable step homotopy continuation method in maple, both for second and third orders, using the code of smith [18] as a starting point. we compare the methods, and apply them to a variety of problems arising in polynomial system solving. for scalar functions,

application of homotopy analysis method for solving ... - application of homotopy analysis method for solving nonlinear cauchy problem v.g. gupta and sumit gupta ... homotopy perturbation method is the special case of homotopy analysis method at ... or maple. for the convergence of the above method we refer the reader to liao. if equation (2.1) admits unique solution, then this method will produce the ...

homotopy analysis method in nonlinear differential equations - homotopy analysis method in nonlinear differential ... of computer algebra system like mathematica and maple, a mathematica package bvph(version1.0)is developedbytheauthorin theframeoftheham fornonlinear ... a mathematica code based on such kind of explicit formula is given in

computerlab1: heat di \tilde{A} - \hat{A} - \hat{A} usion in rods using maple - computerlab1: heat di \tilde{A} - \hat{A} - \hat{A} usion in rods using maple the di \tilde{A} - \hat{A} - \hat{A} usion of heat in a one-dimensional rod of length l (with insulated surface, uniform heat conductivity, and no heat sources) satis \tilde{A} - \hat{A} - \hat{A} es the one-dimensional di \tilde{A} - \hat{A} - \hat{A} usion ... of course, maple doesn't know that n is an integer, but using $\sin(n \dots$

homotopy perturbation method for image restoration and ... - existence and uniqueness of the solution gained by homotopy method was proved earlier [14]. of course, many authors see the homotopy method as a tool for finding an appropriate starting point in newtonian method which is still a crucial problem. to use the homotopy method, it is necessary to

an application of homotopy perturbation method for non ... - topy perturbation method using software maple. the results are given in table 1, and also the results of homotopy perturbation method and numerical method (n.m) are given in [20] and they are presented in this table. table 2 ,3 are made to compare between present results and results given by blasius [18]. in fig. 1, 2

the homotopy operator method for symbolic integration by ... - the homotopy operator method for symbolic integration by parts ... deconinck and nivala [14, 15] have recently developed similar code in maple. although applicable to exact as well as non-exact expressions, their code is restricted to the 1d case. starting from version 9 of maple, the homotopy operator is now part of the kernel of maple to ...

homotopy anal ysis method in nonlinear differential equations - homotopy anal ysis method in nonlinear differential equations shijun liao. homotopy analysis method in nonlinear differential equations shijun liao ... of computer algebra system like mathematica and maple, a mathematica package bvph(version1.0)is developedbytheauthorin theframeoftheham fornonlinear ... a mathematica code based on suchkind of ...

the approximate solution of high-order nonlinear ordinary ... - a homotopy perturbation method (hpm) [6] has been proposed to solve a quadratic riccati equation. a quasilinearization approach to the nonlinear problems in physics has been discussed in [7]. chebyshev collocation matrix method [8] has been presented the numerical solution of nonlinear differential equations. the method in [8] transforms the ...

a maple package of automated derivation of homotopy ... - j syst sci complex (2012) 25: 594-616 a maple package of automated derivation of homotopy analysis solution for periodic nonlinear oscillations

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