

# Perturbation Methods For Differential Equations By Bhimsen Shivamoggi

By Bhimsen Shivamoggi

## Coefficients perturbation methods for higher-order -

The coefficients perturbation methods form a class of efficient numerical techniques for approximating ordinary differential equations (ODEs) associated with initial

<http://www.tandfonline.com/doi/full/10.1080/00207160701874797>

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Abstract. The modified homotopy perturbation method is extended to derive the exact solutions for linear (nonlinear) ordinary (partial) differential equations of

<http://www.hindawi.com/journals/jam/2014/594245/>

### **differential equations - Method of dominant -**

We know perturbation theory express the desired solution of differential equations in terms of a formal power is part of the method of dominant balance.

<http://math.stackexchange.com/questions/714083/method-of-dominant-balance-and-perturbation-theory>

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### **Homotopy perturbation method for solving -**

1. Introduction. Hyperbolic partial differential equations play a dominant role in many branches of science and engineering. Wave equation is a typical example, which

<http://www.sciencedirect.com/science/article/pii/S0898122108000291>

### **Homotopy perturbation method for special nonlinear -**

hyperbolic partial differential equations. perturbation method has been used by many perturbation technique. Computer Methods in Applied

<http://www.sciencedirect.com/science/article/pii/S1018364710000790>

### **Generalized homotopy method for solving nonlinear -**

a new tool for the solution of nonlinear differential equations is The generalized homotopy method homotopy perturbation method for partial differential

<http://link.springer.com/article/10.1007/s40314-013-0060-4>

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ordinary and partial differential equations, optimization theory, Random Perturbation Methods with Applications in Science and Engineering, Springer, New

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### **Miscellaneous Perturbation Methods - Springer -**

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### **Singular perturbation theory - Scholarpedia -**

Dec 30, 2012 Singular perturbation theory A powerful approach coming from these areas applicable to linear homogeneous differential equations is the WKB method

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### **Perturbation Methods - Partial Differential -**

How to Cite. Zauderer, E. (2006) Perturbation Methods, in Partial Differential Equations of Applied Mathematics, Third Edition, John Wiley & Sons, Inc., Hoboken, NJ

<http://onlinelibrary.wiley.com/doi/10.1002/9781118033302.ch9/summary>

### **Solution of the linear and non-linear differential -**

differential equations by using Homotopy perturbation method V equations like Abelian differential equations. The method yields solutions

[http://www.academia.edu/9211221/Solution\\_of\\_the\\_linear\\_and\\_non-linear\\_differential\\_equations\\_by\\_using\\_Homotopy\\_perturbation\\_met](http://www.academia.edu/9211221/Solution_of_the_linear_and_non-linear_differential_equations_by_using_Homotopy_perturbation_met)

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