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The Poincare method of normal forms and the Bogolyubov-Krylov Mitropolsky averaging methods, well known in the literature, should be mentioned specifically in connection with what will follow. These methods do not assume an immediate search for solutions in some special form, but make use of changes of variables close to the identity ...

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Consider the linear system of equation $Ax = b$ (1) where $A \in R(n,)$ is a nonsingular matrix, and a perturbed system $(A+\Delta A)(x + \Delta x) = b + \Delta b$. (2) Our aim is to examine how perturbations of A and of b affect the solution of the system. TUHHHeinrich Voss Numerical Linear Algebra Chap. 4:

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Perturbation and Regularisation 2005 2 / 55

Numerical Linear Algebra Chap. 4: Perturbation and ...

Perturbation theory comprises mathematical methods for finding an approximate solution to a problem, by starting from the exact solution of a related, simpler problem. A critical feature of the technique is a middle step that breaks the problem into "solvable" and "perturbation" parts. [1]

Perturbation theory - Wikipedia

The nonlinear equations can be written in state-space form by adopting standard techniques for defining an augmented state vector. The additional kinetic and potential energies due to elastic transverse (normal) displacement normal to the link are used to determine the equations of motion of a flexible manipulator.

Nonlinear Perturbation - an overview | ScienceDirect Topics

Common methods for the qualitative analysis of nonlinear ordinary differential equations include: Examination of any conserved quantities, especially in Hamiltonian systems Examination of dissipative quantities (see Lyapunov function) analogous to conserved quantities Linearization via Taylor expansion

Nonlinear system - Wikipedia

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Algebraic Methods in Nonlinear Perturbation Theory. [V N Bogaevski; A Povzner] -- This book will be of interest for everybody working on perturbation theory in differential equations. The book requires

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Homotopy perturbation methods may be viewed as an extension and generalization of the existing methods for solving nonlinear equations. In addition, the use of Chebyshev wavelet is found to be ...

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Approximate stability analysis of nonlinear delay differential algebraic equations (DDAEs) with periodic coefficients is proposed with a geometric interpretation of evolution of the linearized system. Firstly, a numerical algorithm based on direct integration by expansion in terms of Chebyshev polynomials is derived for linear analysis.

Approximate Stability Analysis and Computation of ...

New iterative methods for solving nonlinear equation by using homotopy perturbation method Article (PDF Available) in Applied Mathematics and Computation 219:3565-3574 · December 2012 with 1,242 ...

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For instance, the nonlinear DAE (1.1) has index μ , where μ is the minimal number of differentiations while the equations (1.2) $f(t, u(t), u'(t)) = 0$, $df(t, u(t), u'(t))/dt = 0$, $\int d\mu f(t, u(t), u'(t)) d\mu = 0$, allow to extract an explicit ordinary differential system using only algebraic manipulations. For example, consider the following DAEs (1.3) $u_1'(t) = f(u_1(t), u_2(t))$, (1.4) $0 = g(u_1(t), u_2(t))$.

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