

Asymptotic Integration And Stability For Ordinary Functional And Discrete Differential Equations Of Fractional Order Series On Complexity Nonlinearity And Chaos

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Asymptotic Integration And Stability For

Forty years ago Lifshitz, Slyozov, and Wagner analyzed the case of well-separated, low-volume-fraction inclusions, deriving an evolution equation for the radius distribution function then finding a ...

Mathematics in Materials Science

Review of complex power series and contour integration. Conformal mapping, Schwartz-Christoffel transformation. Special functions. Asymptotic expansions ... area of fluid dynamics such as hydrodynamic ...

Department of Mathematics

but aim only at the time asymptotic, steady, numerical solution. Remember that we have advocated that last option, as a standard discretization approach for convection-diffusion equations, such as the ...

Part IV: The Resolution of Numerical Schemes

Number systems: the complex plane; fractions, powers, and roots; analytic functions; elementary functions; complex integration; power series ... calculus of variations, stability theory. MTH 5361 - ...

Graduate Course Descriptions

We investigate the stability of a Newtonian ferrofluid cylinder under a steady magnetic field. Linear stability analysis is performed by imposing a small-amplitude axisymmetric disturbance to the ...

Linear stability analysis of a Newtonian ferrofluid cylinder under a magnetic field

The present paper investigates these effects with linear stability theory and a direct numerical simulation. Three configurations are considered: evenly spaced corotating roughness elements, as well ...

Linear stability analysis of a boundary layer with rotating wall-normal cylindrical roughness elements

My research centers on the modeling, simulation and control of complex nonlinear systems, multiscale computing, integration of asymptotic and numerical techniques ... Image tracking and processing ...

Applied Mathematics

The quest for integration of optical setups on a chip requires integrated implementation of fundamental elements such as laser sources with critical power and coherence demands, isolators and ...

Exceptional points in optics and photonics

By this selective steering of photon spin, we propose an information encoding with robustness, privacy, and high level of integration at a deep subwavelength scale for the future quantum applications.

Selectively steering photon spin angular momentum via electron-induced optical spin Hall effect

Our solution shows high reliability and long term stability, as it maintains a persistent phase difference over 2-km-long fiber interference for several hours of continuous and free-running ...

Path-encoded high-dimensional quantum communication over a 2-km multicore fiber

ES_APPM 420-1 Asymptotic and Perturbation Methods in Applied Mathematics ES_APPM 420-2 Asymptotic and Perturbation Methods in Applied Mathematics ES_APPM 420-3 Asymptotic and Perturbation Methods in ...

All Department Courses

The light emission predominantly occurs in the plane of the structure, which facilitates the microlaser integration with other elements. We focus on microdisk lasers with various types of the In ...

Quantum-dot microlasers based on whispering gallery mode resonators

Fundamental considerations relate to the stability and accuracy of the method, the derivation of mathematical proofs for suitable ratios of the two types of penalties, and the development of robust ...

Professor Harm Askes

Masters degree credit for Teacher Option Only. The class is aimed to give rigorous foundations to the basic concepts of Calculus such as limits of sequences and functions, continuity, Riemann ...

Course Listing for Mathematical Sciences

Liu Z, Shea J, Foley SF, Bussweiler Y, Rohrbach A, Klemme S, Berndt J. (2021). Clarifying source assemblages and metasomatic agents for basaltic rocks in eastern Australia using olivine phenocryst ...

Begutachtete (peer-reviewed) Publikationen seit 1995

Babazadeh S, Ghorbani MR, Bröcker M, D'Antonio M, Cottle J u.a. (2017). Late Oligocene-Miocene mantle upwelling and interaction inferred from mantle signatures in gabbroic to granitic rocks from the ...

