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The existence of solutions of a linear partial differential equation is closely related to the singularities which solutions of the adjoint equation can have. We shall therefore study singularities of ...

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Numerical solution of time-dependant partial differential equations by finite differences and spectral methods. Construction and comparison of algorithms including their convergence and stability ...

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~~Guangming Yao~~

Prerequisites: MAT 201; partial differential equations and basic programming ... Green's functions for the solution of ordinary differential equations and Poisson's equation, and the calculus of ...

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~~Applied and Computational Mathematics~~

His area of research is partial differential equations ... doi: 10.1007/s10240-020-00119-9 Cabré X, Figalli A, Ros-Oton X, Serra J. Stable Solutions to Semilinear Elliptic Equations are Smooth up to ...

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Series solutions. Use of eigenvalues and eigenvectors. Laplace transforms. Nonlinear equations and stability; phase portraits. Partial differential equations via separation of variables.

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In weather prediction, data is gathered globally and locally and used as input to a system of partial differential ... of equations is large and complex, and good mathematics together with powerful ...

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An introduction to solution techniques for linear partial differential equations. Topics include: separation of variables, eigenvalue and boundary value problems, spectral methods, fourier series, and ...

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