Efficient Eigenvalue Based Analysis Of Bounded And Unbounded Electromagnetic Fields

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efficient spectral and spectral element methods for

efficient spectral and spectral element methods for eigenvalue problems of schrodinger equations with an inverse square potential huiyuan liyand zhimin zhangz abstract. in this article, we study numerical approximation of eigenvalue problems of the in which the traditional polynomial based spectral method is applied. all subdomains are

ec efficient solution of the fuzzy eigenvalue problem in

fuzzy eigenvalue problem in structural dynamics efficiently calculate the fuzzy eigenvalue problem based on this new interval analysis in traditional vibration analysis, the eigenvalue

a linear-time eigenvalue solver for finite-element-based

a linear-time eigenvalue solver for finite-element-based analysis of large-scale wave propagation problems in on-chip interconnect is the solution of a generalized eigenvalue problem. efficient algorithms such as arpack [2] still require o based on the convergence of the eigenvalue solution. the dimension of the eigenvalue system in (1

efficient solution of symmetric eigenvalue problems using

efficient solution of symmetric eigenvalue problems using multigrid preconditioners in the locally optimal block conjugate gradient method. andrew v. knyazev† and klaus neymeyr‡ abstract. we present a short survey of multigrid–based solvers for symmetric eigenvalue problems. we con-

a fast 3-d eigenvalue solver for finite-element-based

a fast 3-d eigenvalue solver for finite-element-based analysis of multilayered integrated circuits jongwon lee*, venkataramanan balakrishnan, cheng-kok koh, and dan jiao c. efficient solution of reduced system matrix . this number is chosen based on the convergence of the eigenvalue solution.

implicit analyses in ls-dyna - dynamore

implicit analyses in ls-dyna overview, how to set up implicit analysis and improve convergence torbjörn johansen, et al. eigenvalue based analysis frequencies and mode shapes linear buckling loads and modes efficient, fast conditionally stable (courant) many small time steps

latent semantic indexing using eigenvalue analysis for

latent semantic indexing using eigenvalue analysis for efficient information retrieval the lsi method based on an eigenvalue analysis × latent semantic indexing using eigenvalue analysis

an efficient technique for finding the eigenvalues of
an efficient technique for finding the eigenvalues of fourth-order sturm-liouville problems . the homotopy analysis method (ham) to numerically [15] pre-sented a computational method for solving eigenvalue problems of high-order ordinary differential equations which based on the use of haar wavelets. finally, ycel, and boubaker [16

efficient calculation of critical eigenvalue clusters in
efficient calculation of critical eigenvalue clusters eigenvalue analysis, eigenvalue clusters, subspace iterations, iterative refinement, newton's method, sparse matrices. introduction this is based on the spectral decomposition (13) of m where we note

a critical eigenvalues tracing method for the small signal
efficient and robust numerical methods. in terms of small signal stability analysis, power systems are usually mod-eled by systems of differential-algebraic equations with large nonlinear dynamics. simulation in frequency do-main of the resulting dynamical systems heavily relies on numerical methods for eigenvalue problems and systems

ieee transactions on pattern analysis and machine
efficient multilevel eigensolvers with applications to data analysis tasks dan kushnir, meirav galun, and achi brandt these solvers are based (grid). we present two efficient multilevel eigensolvers for solving massive eigenvalue problems that emerge in data analysis tasks. the first solver, a version of classical algebraic multigrid

eigenvalue sensitivity analysis in structural dynamics
eigenvalue sensitivity analysis in structural dynamics structural dynamic modification implies the incorporation, into an existing testing or some other source, which questions or improves the accuracy of the model. the sensitivity approach is based on the prior selection of updating parameters (design variables) in the initial fe model

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