
Computing Moving Boundary Problems Applied Engineering

an approach for solving of a moving boundary problem - mathnet - j. appl. math. & computing vol. 14(2004), no. 1 - 2, pp. 97 - 113 an approach for solving of a moving boundary problem h. basirzadeh and a. v. kamyad abstract. in this paper we shall study moving boundary problems, and we introduce an approach for solving a wide range of them by using calculus of variations and optimization. first, we transform the problem equivalently into an optimal ... **a finite difference scheme for a class of nonlinear ...** - actness property confirmed for two moving boundary problems, the porous medium equation and a simplistic glacier equation. the scheme is also tested for non self-similar initial conditions by computing relative errors in the approximation. **parallel eulerian-lagrangian method with adaptive mesh ...** - moving boundary and topological change is demonstrated by modeling binary droplet collisions. with the aid of the present techniques, large scale moving boundary problems can be solved. **an arbitrary lagrangian eulerian method for moving ...** - numerical solutions of moving boundary problems can be classified into two categories, moving grid methods and the fixed grid methods. each method has its own advantages and disadvantages. **computation of flows with moving boundaries and fluid ...** - moving boundary problems arise in a large variety of physical situations. examples include interaction of fluid interfaces, free-surface flows, solidification, and fluid-structure interactions. the characteristic feature is the presence of relative motion between different parts of a boundary or between different boundaries. this could additionally result in topologic changes such as coalescence. **a nonlinear moving-boundary problem of parabolic ...** - numerical analysis and scientific computing preprint series a nonlinear moving-boundary problem of parabolic-hyperbolic-hyperbolic type arising in fluid-multi-layered structure. **an overset adaptive cartesian/prism grid method for moving ...** - problems has prompted their applications to unsteady moving boundary flow problems. for a moving boundary flow for a moving boundary flow problem, the computational grids must move with the moving boundaries. **tr/81 february 1978 on the weak solution of moving ...** - stefan problem to more general moving boundary problems with parabolic or elliptic differential equations is discussed. this formulation of the classical stefan problem with a parabolic differential equation is described by oleinik (1960). the theory of weak solutions for the classical stefan problem has proved most helpful, leading as it does to a fixed domain formulation of this moving boundary problem. **journal of scientific computing - mcsl** - a characteristic-based, spectral element method for moving-boundary problems 3 velocity and grid spacing. for moving boundary problems, such as internal combustion engines, the solution of moving-boundary problems by the spectral method ... - the moving-boundary incompressible newtonian fluid flows considered in this paper, are governed by the navier-stokes equations comprising the momentum equation and the divergence-free condition. **fast computation of the green function for guillaume viii ...** - 90 free and moving boundary problems diffraction-radiation problems without forward speed, and with the steady ship wave resistance. various strategies have been employed, particularly a finite-element method for solving elliptic equations ... - meshes has useful practical applications for free and moving-boundary problems as at each step one would only have to adjust the domain of integration and not the mesh—leading to a considerable saving in effort and computing time. **solving free-boundary problems with applications in finance** - unify recent results on this moving boundary method, illustrating its application on a set of classical problems, of increasing difficulty, in finance. this survey is intended for those primarily interested in computing numerical solutions to these problems. to this end, we include actual matlab code for one of the problems studied, namely, american option pricing. 1 introduction ... **level set based immersed boundary method and its ...** - for all such problems, an immersed boundary method was introduced by (peskin) to study the blood flow in human heart. level-set method (sussman) is a powerful numerical technique for analyzing and computing moving boundaries in variety of situations. it relies on eulerian rather than lagrangian method of tracking interface and thus is easy to implement numerically. choi (2007), tan (2010) ... **distributed computing for the evaluation of the ...** - distributed computing for the evaluation of the aeroelastic response and sensitivity analysis of flutter speed of the messina bridge f. nieto, s. hernández & j. á. jurado

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