Case Study: Ablation of CFRP Laminated Composite – Ablation Rate

- ☐ The ablation rate is assumed to follow Park's finite-rate ablation formulation [3-5], the mass blowing rates, $\dot{m}_i$, due to various surface-gas reactions (i.e., oxidation, nitridation, and sublimation) are:

$$\dot{m}_1 = \rho_e C_O \bar{v}_O \beta_O \frac{M_C}{M_O};\ \left(C_{(S)} + O \rightarrow CO\right),\ \dot{m}_2 = 2\rho_e C_{O_2} \bar{v}_{O_2} \beta_{O_2} \frac{M_C}{M_{O_2}};\ \left(2C_{(S)} + O_2 \rightarrow 2CO\right),$$

$$\dot{m}_3 = \rho_e C_N \bar{v}_N \beta_N \frac{M_C}{M_N};\ \left(C_{(S)} + N \rightarrow CN\right),\ \ \dot{m}_4 = \rho_e \left(C_{C_3,E} - C_{C_3}\right) \bar{v}_{C_3} \beta_{C_3};\ \left(3C_{(S)} \rightarrow C_3\right),$$

$$\dot{m}_c = \dot{m}_1 + \dot{m}_2 + \dot{m}_3 + \dot{m}_4, \qquad \dot{m}_g = 0.21\dot{m}_c, \qquad \dot{s} = \left(\dot{m}_c + \dot{m}_g\right) / \rho_s,$$

- ☐ Such a formulation may be **inappropriate** to model ablation under radiative heating environment. The case study **does not** necessarily reflect the real physics, but should be regarded as a demonstration of the modeling capability of this proposed MMM procedure.

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Moving Finite Elements

M. J. Baines

Moving Finite Elements:

Moving Finite Element Method Maria do Carmo Coimbra,Alirio Egidio Rodrigues,Jaime Duarte Rodrigues,Rui Jorge Mendes Robalo,Rui Manuel Pires Almeida,2016-11-30 This book focuses on process simulation in chemical engineering with a numerical algorithm based on the moving finite element method MFEM It offers new tools and approaches for modeling and simulating time dependent problems with moving fronts and with moving boundaries described by time dependent convection reaction diffusion partial differential equations in one or two dimensional space domains It provides a comprehensive account of the development of the moving finite element method describing and analyzing the theoretical and practical aspects of the MFEM for models in 1D 1D 1d and 2D space domains Mathematical models are universal and the book reviews successful applications of MFEM to solve engineering problems It covers a broad range of application algorithm to engineering problems namely on separation and reaction processes presenting and discussing relevant numerical applications of the moving finite element method derived from real world process simulations **Moving Finite Elements in 2-D.** Robert J. Gelinas,SCIENCE APPLICATIONS INC PLEASANTON CALIF.,1981 The moving finite element MFE method is a new PDE solution method which has shown significant promise in 1 D for the numerical solution of some of the most difficult problems under study with extremely large but finite gradients The overall objective of the present research is to explore further the promise of the continuous node moving properties of the MFE method in 2 D For this both the logical structure of the MFE method and its reduction to practice in 2 D are under investigation in this project This initial research in 2 D focuses upon such simple conservation equations as heat travelling wave and Burger s equations Work in this initial reporting period has resulted in significant computational economies for both unvectorized versions of the MFE method as it currently exists and for vectorized versions which may emerge in later efforts A working test code which is needed for essential scientific exploration and further enhancement of the MFE method in higher dimensions has been brought to nearly an operational stage of execution during this period Author **Moving Finite Elements: Regularisation Techniques** M. J. Baines,1986 Moving Finite Elements Michael John Baines,Professor in Applied Mathematics M J Baines,1994 This book is mainly concerned with finite element methods for time dependent partial differential equations when the grids are allowed to move in time but also describes grid generation techniques which include grid adjustment The mechanism for grid movement derives from a generalization ofthe residual minimization technique which is familiar from the Galerkin finite element method The book brings together most of the work done over the last decade or so which has been stimulated by Miller s original idea and discusses the interrelationships between the techniques of the method andthe established ideas of the method of characteristics Hamilton s equations the Legendre transformation and grid equidistribution The book highlights the issues involved and should provide the reader with a clear view of the current state of the subject and prompt further research *Applications of the Moving Finite Element Method for Systems in 2-D.* Science

Applications International Corporation,M. J. Djomehri,S. K. Doss,R. J. Gelinas,K. Miller,1985 **Mesh Free Methods** G.R. Liu,2002-07-29 As we attempt to solve engineering problems of ever increasing complexity so must we develop and learn new methods for doing so The Finite Difference Method used for centuries eventually gave way to Finite Element Methods FEM which better met the demands for flexibility effectiveness and accuracy in problems involving complex geometry Now

Moving Finite Elements in 2-D -- Fluid Dynamics Applications ,1984 This report summarizes progress on the feasibility of using the moving finite element MFE method in two dimensional for the study of shock boundary layer interactions It is found that highly local physical dissipation processes in regions of large gradients can be sensitive determinates of macroscopic flow properties The MFE method continues to show promise for resolving such physical effects while suppressing anomolous or numerical diffusion effects over highly disparate physical scales Recommendations are given for improving the MFE method for further reduction to practice for airblast applications Keywords Viscous Dissipation Implicit Solutions Partial Differential Equation Navier Stokes Equations Local Moving Finite Elements M. J. Baines,1985 **A Moving Finite Element Method for Time Dependent Partial Differential Equations with Error Estimation and Refinement** S. Adjerid,J. E. Flaherty,RENSSELAER POLYTECHNIC INST TROY NY DEPT OF MATHEMATICAL SCIENCES.,1984 The authors discuss a moving finite element method for solving vector systems of time dependent partial differential equations in one space dimension The mesh is moved so as to equidistribute the spatial component of the discretization error in H1 They present a method of estimating this error by using p hierarchic finite elements The error estimate is also used in an adaptive mesh refinement procedure to give an algorithm that combines mesh movement and refinement The authors discretize the partial differential equations in space using a Galerkin procedure with piecewise linear elements to approximate the solution and quadratic elements to estimate the error A system of ordinary differential equations for mesh velocities are used to control element motions The authors use existing software for stiff ordinary differential equations for the temporal integration of the solution the error estimate and the mesh motion Computational results using a code based on this method are presented for several examples *Moving Finite Element Solution of Systems of Partial Differential Equations in 1-dimension* Mohammad Dhjahed Djomehri,1983 Adaptive Computational Methods for Partial Differential Equations Ivo Babushka,Jagdish Chandra,Joseph E. Flaherty,1983-01-01 List of participants Elliptic equations Parabolic equations Hyperbolic equations *An Implementation of a Moving Finite Element Method* Andrew N. Hryamk,Gregory J. McRae,Arthur W. Westerberg,1984 Moving Finite Elements M. J. Baines,1985 Mathematical and Computational Methods in Seismic Exploration and Reservoir Modeling William Edward Fitzgibbon,1986-01-01

Mathematical Methods for the Magnetohydrodynamics of Liquid Metals Jean-Frédéric Gerbeau,Claude Le Bris,Tony Lelièvre,2006-08-31 This comprehensive text focuses on mathematical and numerical techniques for the simulation of magnetohydrodynamic phenomena with an emphasis laid on the magnetohydrodynamics of liquid metals and on a prototypical industrial application Aimed at research mathematicians engineers and physicists as well as those working in industry and starting from a good understanding of the physics at play the approach is a highly mathematical one based on the rigorous analysis of the equations at hand and a solid numerical analysis to found the simulations At each stage of the exposition examples of numerical simulations are provided first on academic test cases to illustrate the approach next on benchmarks well documented in the professional literature and finally whenever possible on real industrial cases

Numerical Methods for Problems with Moving Fronts Bruce A. Finlayson,1992 *17th European Symposium on Computed Aided Process Engineering* Valentin Plesu,Paul Serban Agachi,2007-05-24 The 17th European Symposium on Computed Aided Process Engineering contains papers presented at the 17th European Symposium of Computer Aided Process Engineering ESCAPE 17 held in Bucharest Romania from 27 30 May 2007 The ESCAPE series serves as a forum for scientists and engineers from academia and industry to discuss progress achieved in the area of Computer Aided Process Engineering CAPE The main goal was to emphasize the continuity in research of innovative concepts and systematic design methods as well the diversity of applications emerged from the demands of sustainable development ESCAPE 17 highlights the progresss software technology needed for implementing simulation based tools The symposium is based on 5 themes and 27 topics following the main trends in CAPE area Modelling Process and Products Design Optimisation and Optimal Control and Operation System Biology and Biological Processes Process Integration and Sustainable Development Participants from 50 countries attended and invited speakers presented 5 plenary lectures tackling broad subjects and 10 keynote lectures Satellite events added a plus to the scientific dimension to this symposium All contributions are included on the CD ROM attached to the book Attendance from 50 countries with invited speakers presenting 5 plenary lectures tackling broad subjects and 10 keynote lectures *31st European Symposium on Computer Aided Process Engineering* Metin Türkay,Rafiqul Gani,2021-07-22 The 31st European Symposium on Computer Aided Process Engineering ESCAPE 31 Volume 50 contains the papers presented at the 31st European Symposium of Computer Aided Process Engineering ESCAPE event held in Istanbul Turkey It is a valuable resource for chemical engineers chemical process engineers researchers in industry and academia students and consultants in the chemical industries Presents findings and discussions from the 31st European Symposium of Computer Aided Process Engineering ESCAPE event Computational Methods and Experiments in Materials Characterization II C. A. Brebbia,Andrea Alberto Mammoli,2005 Bringing together the work of practitioners in many fields of engineering materials and computational science this book includes most of the papers presented at the Second International Conference on Material Characterisation Compiled with the central aim of encouraging interaction between experimentalists and modelers the contributions featured are divided under the following sections MICROSTRUCTURES Composites Alloys Ceramics Cements Foams Suspensions Biomaterials Thin Films Coatings EXPERIMENTAL METHODS Optical Imaging SEM TEM X Ray Microtomography Ultrasonic Techniques NMR MRI Micro

Nano Indentation Thermal Analysis Surface Chemistry COMPUTATIONAL METHODS Continuum Methods FEM FV BEM Particle Models MD DPD Lattice Boltzmann Montecarlo Methods Cellular Automata Hybrid Multiscale Methods and Damage Mechanics **The Moving Finite Element Method for Solving Partial Differential Equations** Sohail Aslam,1985

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Table of Contents Moving Finite Elements

1. Understanding the eBook Moving Finite Elements
    - The Rise of Digital Reading Moving Finite Elements
    - Advantages of eBooks Over Traditional Books
2. Identifying Moving Finite Elements
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Moving Finite Elements
    - User-Friendly Interface
4. Exploring eBook Recommendations from Moving Finite Elements
    - Personalized Recommendations
    - Moving Finite Elements User Reviews and Ratings
    - Moving Finite Elements and Bestseller Lists
5. Accessing Moving Finite Elements Free and Paid eBooks
    - Moving Finite Elements Public Domain eBooks
    - Moving Finite Elements eBook Subscription Services
    - Moving Finite Elements Budget-Friendly Options
6. Navigating Moving Finite Elements eBook Formats

    - ePub, PDF, MOBI, and More
    - Moving Finite Elements Compatibility with Devices
    - Moving Finite Elements Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Moving Finite Elements
    - Highlighting and Note-Taking Moving Finite Elements
    - Interactive Elements Moving Finite Elements
8. Staying Engaged with Moving Finite Elements
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Moving Finite Elements
9. Balancing eBooks and Physical Books Moving Finite Elements
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Moving Finite Elements
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Moving Finite Elements
    - Setting Reading Goals Moving Finite Elements
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Moving Finite Elements
    - Fact-Checking eBook Content of Moving Finite Elements
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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