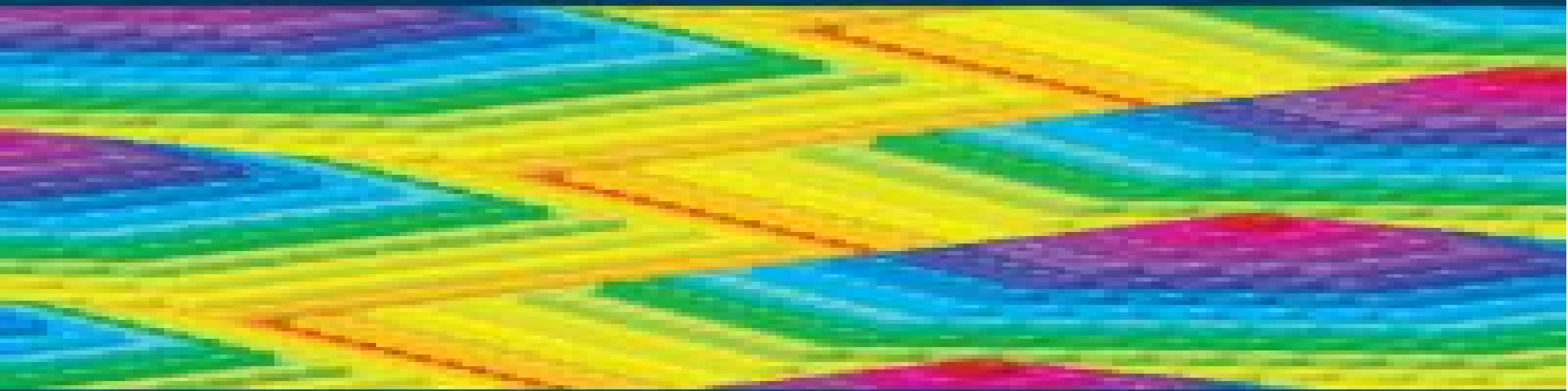


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Volume 2

Discrete-continuum Coupling Method to Simulate Highly Dynamic Multi-scale Problems

*Simulation of Laser-induced Damage
in Silica Glass*

Mohamed Jebahi, Frédéric Dau
Jean-Luc Charles and Ivan Iordanoft

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Abdelkhalak El Hami, Mohamed Eid



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Discrete-continuum Coupling Method to Simulate Highly Dynamic Multi-scale Problems Mohamed Jebahi, Frédéric Dau, Jean-Luc Charles, Ivan Iordanoff, 2015-10-02 Complex behavior models plasticity crack visco elasticity are facing several theoretical difficulties in determining the behavior law at the continuous macroscopic scale When homogenization fails to give the right behavior law a solution is to simulate the material at a mesoscale using the discrete element model DEM in order to directly simulate a set of discrete properties that are responsible for the macroscopic behavior Originally the discrete element model was developed for granular material This book the second in the Discrete Element Model and Simulation of Continuous Materials Behavior set of books shows how to choose the adequate coupling parameters to avoid spurious wave reflection and to allow the passage of all the dynamic information both from the fine to the coarse model and vice versa The authors demonstrate the coupling method to simulate a highly nonlinear dynamical problem the laser shock processing of silica glass

Finite Element Method to Model Electromagnetic Systems in Low Frequency Francis Piriou, Stéphane Clenet, 2024-03-26 Numerical modeling now plays a central role in the design and study of electromagnetic systems In the field of devices operating in low frequency it is the finite element method that has come to the fore in recent decades Today it is widely used by engineers and researchers in industry as well as in research centers This book describes in detail all the steps required to discretize Maxwell's equations using the finite element method This involves progressing from the basic equations in the continuous domain to equations in the discrete domain that are solved by a computer This approach is carried out with a constant focus on maintaining a link between physics i.e. the properties of electromagnetic fields and numerical analysis Numerous academic examples which are used throughout the various stages of model construction help to clarify the developments

Multi-physics Optimization Abdelkhalak El Hani, Mohamed Eid, 2025-08-19 This book illustrates in detail the state of the art in the multidisciplinary science of multi physics optimization In a context of the perpetual search for improved industrial competitiveness the evolution of product design and optimization methods and tools appears to be a strategic necessity in view of the imperative to reduce costs In the aeronautics sector resources are mainly focused on forecasting and controlling the costs incurred by failures that occur at commissioning during the warranty period and during aircraft operation However in the future new contracts for the sale of aeronautical equipment will become increasingly oriented toward sales by the hour of operation The aim of this book is to propose new methods for reliability based optimization enabling an analysis of a system's life cycle The V cycle allows development phases to be viewed in terms of development time and levels of integration complexity Multi physics Optimization is dedicated to optimization methods for multi physics problems Each chapter clearly sets out the techniques used and developed and accompanies them with illustrative examples The book is aimed at students but is also a valuable resource for practicing

engineers and research lecturers The Finite Element Method Patrick Ciarlet, Eric Luneville, 2023-07-26 The finite element method which emerged in the 1950s to deal with structural mechanics problems has since undergone continuous development Using partial differential equation models it is now present in such fields of application as mechanics physics chemistry economics finance and biology It is also used in most scientific computing software and many engineers become adept at using it in their modeling and numerical simulation activities This book presents all the essential elements of the finite element method in a progressive and didactic way the theoretical foundations practical considerations of implementation algorithms as well as numerical illustrations created in MATLAB Original exercises with detailed answers are provided at the end of each chapter **Geometric and Topological Mesh Feature Extraction for 3D Shape Analysis**

Jean-Luc Mari, Franck Hétyroy-Wheeler, Gérard Subsol, 2020-01-02 Three dimensional surface meshes are the most common discrete representation of the exterior of a virtual shape Extracting relevant geometric or topological features from them can simplify the way objects are looked at help with their recognition and facilitate description and categorization according to specific criteria This book adopts the point of view of discrete mathematics the aim of which is to propose discrete counterparts to concepts mathematically defined in continuous terms It explains how standard geometric and topological notions of surfaces can be calculated and computed on a 3D surface mesh as well as their use for shape analysis Several applications are also detailed demonstrating that each of them requires specific adjustments to fit with generic approaches The book is intended not only for students researchers and engineers in computer science and shape analysis but also numerical geologists anthropologists biologists and other scientists looking for practical solutions to their shape analysis understanding or recognition problems **Geometric Modeling of Fractal Forms for CAD** Christian Gentil, Gilles Gouaty, Dmitry Sokolov, 2021-05-11

Designing and controlling complex shapes like porous volumes and rough surfaces is a challenge Fractal geometry is an interesting approach which considerably simplify the problem Even though underlying concepts reduce the set possible shapes they generate a surprising variety of shapes In this book we present a formalism to design such complex objects for geometric aided geometry design applications The goal of this formalism is to provide to the end user the possibility to manipulate fractal objects as a standard euclidean object with standard tools of CAD system This formalism encompass curves surfaces volumes as well as NURBS and subdivision surfaces All theoretical and practical aspects are developed from the design up to 3D printing Concurrent Atomistic to Continuum Coupling and Adaptive Model Selection for Multiscale Problems Mohan A. Nuggehalli, 2007 **Multiscale Coupling in Function Space**

Konstantin Fackeldey, Rolf Krause, 2007 **Analysis of Atomistic/Continuum Coupling Using Meshless Methods**, 2008 In this paper we compare three interpolation functions in a discretized continuum when used in coupled dynamic atomistic to continuum simulations The focus is on assessing the ability of the discrete continuum model to capture and accurately represent transient effects namely a travelling longitudinal wave through both the mixed atomistic continuum interface and

the non uniform continuum mesh beyond We specifically examine the differences among Bubnov Galerkin partition of unity and moving least squares finite element methods in the continuum part of the multiscale model Our study shows that using partition of unity interpolation functions in the continuum produces superior results compared to the other two approaches

Localized Scale Coupling and New Educational Paradigms in Multiscale Mathematics and Science, 2013 One of the most challenging multi scale simulation problems in the area of multi phase materials is to develop effective computational techniques for the prediction of coalescence and related phenomena involving rupture of a thin liquid film due to the onset of instability driven by van der Waals or other micro scale attractive forces Accurate modeling of this process is critical to prediction of the outcome of milling processes for immiscible polymer blends one of the most important routes to new advanced polymeric materials In typical situations the blend evolves into an emulsion of dispersed phase drops in a continuous matrix fluid Coalescence is then a critical factor in determining the size distribution of the dispersed phase but is extremely difficult to predict from first principles The thin film separating two drops may only achieve rupture at dimensions of approximately 10 nm while the drop sizes are 0.10 m It is essential to achieve very accurate solutions for the flow and for the interface shape at both the macroscale of the full drops and within the thin film where the destabilizing disjoining pressure due to van der Waals forces is proportional approximately to the inverse third power of the local film thickness h^{-3} Furthermore the fluids of interest are polymeric through Newtonian and the classical continuum description begins to fail as the film thins requiring incorporation of molecular effects such as a hybrid code that incorporates a version of coarse grain molecular dynamics within the thin film coupled with a classical continuum description elsewhere in the flow domain Finally the presence of surface active additions either surfactants in the form of di block copolymers or surface functionalized micro or nano scale particles adds an additional level of complexity requiring development of a distinct numerical method to predict the nonuniform concentration gradients of these additives that are responsible for Marangoni stresses at the interface Again the physical dimensions of these additives may become comparable to the thin film dimensions requiring an additional layer of multi scale modeling

The Weak Coupling Method for Coupling Continuum Mechanics with Molecular Dynamics
Konstantin Fackeldey, 2009

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