



OpenFOAM Simulation for Electromagnetic Problems

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**Franco Concli, Lorenzo
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OpenFOAM Simulation for Electromagnetic Problems, 2010 *Latest Advancements in Mechanical Engineering* Franco Concli, Lorenzo Maccioni, Renato Vidoni, Dominik T. Matt, 2024-10-18 This book aims at bringing together academic and industry researchers in mechanical engineering and their worldwide partners in a stimulating environment ISIEA is an annual event that takes place in Bolzano and is organized by the Industrial Engineering and Automation macro area of the Free University of Bozen Bolzano The main theme of the 2024 edition covers all major areas of R cycloidal speed reducers multi physics modeling approaches infrared thermography planning and control of robotic and mechatronic systems mobile field robotics formulations and applications of structural and multibody dynamics innovative solutions for safer and more sustainable mobility artificial intelligence in manufacturing and mechanical engineering advancements in aerospace technologies innovative engineering education SME 5 0 intelligent sustainable and human centered SMEs have been presented

Modelling Diesel Combustion P. A. Lakshminarayanan, Yogesh V. Aghav, 2022-01-21 This book comprehensively discusses diesel combustion phenomena like ignition delay fuel air mixing rate of heat release and emissions of smoke particulate and nitric oxide It enables quantitative evaluation of these important phenomena and parameters Most importantly it attempts to model them with constants that are independent of engine types and hence they could be applied by the engineers and researchers for a general engine This book emphasizes the importance of the spray at the wall in precisely describing the heat release and emissions for most of the engines on and off road It gives models for heat release and emissions Every model is thoroughly validated by detailed experiments using a broad range of engines The book describes an elegant quasi one dimensional model for heat release in diesel engines with single as well as multiple injections The book describes how the two aspects namely fuel injection rate and the diameter of the combustion bowl in the piston have enabled meeting advanced emission noise and performance standards The book also discusses the topics of computational fluid dynamics encompassing RANS and LES models of turbulence Given the contents this book will be useful for students researchers and professionals working in the area of vehicle engineering and engine technology This book will also be a good professional book for practising engineers in the field of combustion engines and automotive engineering

Light Metals 2025 Les Edwards, 2025-03-02 The Light Metals symposia at the TMS Annual Meeting Exhibition present the most recent developments discoveries and practices in primary aluminum science and technology The annual Light Metals volume has become the definitive reference in the field of aluminum production and related light metal technologies The 2025 collection includes contributions from the following symposia Alumina Bauxite Aluminum Alloys Development and Manufacturing Aluminum Reduction Technology Decarbonization and Sustainability in Aluminum Primary Processing Joint Session of Aluminum Reduction Electrode Technology and REWAS 2025 Electrode Technology for Aluminum Production Melt Processing Casting and Recycling Recycling and Sustainability in Cast Shop Technology Joint Session with REWAS 2025

Scandium Extraction and Use in Aluminum Alloys

Physics of Waves Eleanor Hawking, AI, 2025-02-12 Physics of Waves explores the fundamental principles governing wave phenomena revealing the common threads linking sound water and electromagnetic waves Understanding wave physics is crucial for advancing technology in diverse fields like engineering medicine and communications The book emphasizes that despite their different contexts all wave phenomena share a common set of mathematical and physical principles that dictate their generation propagation and energy transfer For example the principles governing sound waves in musical instruments also apply to the propagation of electromagnetic waves in communication technologies The book begins with fundamental concepts like wave types and parameters before delving into specific areas sound waves water waves and electromagnetic waves It illustrates practical applications and the impact of wave phenomena on various technologies Theoretical derivations experimental data and real world examples support the arguments For instance the book presents classic experiments demonstrating wave interference and diffraction alongside current research on advanced applications of wave based technologies making complex concepts more accessible

Thermal and Nonthermal Encapsulation Methods Magdalini Krokida, 2017-09-27 Encapsulation is a topic of interest across a wide range of scientific and industrial areas from pharmaceuticals to food and agriculture for the protection and controlled release of various substances during transportation storage and consumption Since encapsulated materials can be protected from external conditions encapsulation enhances their stability and maintains their viability This book offers a comprehensive review of conventional and modern methods for encapsulation It covers various thermal and nonthermal encapsulation methods applied across a number of industries including freeze drying spray drying spray chilling and spray cooling electrospinning electrospraying osmotic dehydration extrusion air suspension coating pan coating and vacuum drying The book presents basic fundamentals principles and applications of each method enabling the reader to gain extended knowledge The choice of the most suitable encapsulation technique is based on the raw materials the required size and the desirable characteristics of the final products

Advances in Modeling and Simulation in Textile Engineering Nicholus Tayari Akankwasa, Dieter Veit, 2021-03-28 Advances in Modeling and Simulation in Textile Engineering New Concepts Methods and Applications explains the advanced principles and techniques that can be used to solve textile engineering problems using numerical modeling and simulation The book draws on innovative research and industry practice to explain methods for the modeling of all of these processes helping readers apply computational power to more areas of textile engineering Experimental results are presented and linked closely to processes and methods of implementation Diverse concepts such as heat transfer fluid dynamics three dimensional motion and multi phase flow are addressed Finally tools theoretical principles and numerical models are extensively covered Textile engineering involves complex processes which are not easily expressed numerically or simulated such as fiber motion simulation yarn to fiber formation melt spinning technology optimization of yarn production textile machinery design and optimization and modeling of textile fabric

reinforcements Provides new approaches and techniques to simulate a wide range of textile processes from geometry to manufacturing Includes coverage of detailed mathematical methods for textiles including neural networks genetic algorithms and the finite element method Addresses modeling techniques for many different phenomena including heat transfer fluid dynamics and multi phase flow

Computational Thermo-Fluid Dynamics Petr A. Nikrityuk,2011-09-19 Combining previously unconnected computational methods this monograph discusses the latest basic schemes and algorithms for the solution of fluid heat and mass transfer problems coupled with electrodynamics It presents the necessary mathematical background of computational thermo fluid dynamics the numerical implementation and the application to real world problems Particular emphasis is placed throughout on the use of electromagnetic fields to control the heat mass and fluid flows in melts and on phase change phenomena during the solidification of pure materials and binary alloys However the book provides much more than formalisms and algorithms it also stresses the importance of good feasible and workable models to understand complex systems and develops these in detail Bringing computational fluid dynamics thermodynamics and electrodynamics together this is a useful source for materials scientists PhD students solid state physicists process engineers and mechanical engineers as well as lecturers in mechanical engineering

Asian And Pacific Coasts 2011 - Proceedings Of The 6th International Conference Joseph Hun-wei Lee,Chiu-on Ng,2011-11-24 This is a compilation of papers presented at the 6th International Conference on Asian and Pacific Coasts APAC2011 held on December 14 16 2011 in Hong Kong China It contains more than 200 articles addressing a wide spectrum of issues ranging from conventional coastal engineering problems such as wave hydrodynamics and sediment transport to issues of contemporary interest such as tsunami coastal development climate change and seawater level rise shoreline protection marine energy nearshore ecology oil spill etc Authors present their experiences in tackling these problems by means of theoretical modeling numerical simulation laboratory and field observations with an aim to advance fundamental understanding of the controlling mechanisms as well as to develop solutions for practical designs This volume serves to promote technological progress and activities technical knowledge transfer and cooperation on an international scale *Canadian Journal of Physics* ,2012

Complex Electromagnetic Problems and Numerical Simulation Approaches Levent Sevgi,2003-06-10 Today engineering problems are very complex requiring powerful computer simulations to power them For engineers observable based parameterization as well as numerically computable forms with rapid convergent properties if in a series are essential Complex Electromagnetic Problems and Numerical Simulation Approaches along with its companion FTP site will show you how to take on complex electromagnetic problems and solve them in an accurate and efficient manner Organized into two distinct parts this comprehensive resource first introduces you to the concepts approaches and numerical simulation techniques that will be used throughout the book and then in Part II offers step by step guidance as to their practical real world applications Self contained chapters will enable you to find specific solutions to numerous problems Filled with in

depth insight and expert advice Complex Electromagnetic Problems and Numerical Simulation Approaches Describes ground wave propagation Examines antenna systems Deals with radar cross section RCS modeling Explores microstrip network design with FDTD and TLM techniques Discusses electromagnetic compatibility EMC and bio electromagnetics BEM modeling Presents radar simulation Whether you re a professional electromagnetic engineer requiring a consolidated overview of the subject or an academic student who wishes to use powerful simulators as a learning tool Complex Electromagnetic Problems and Numerical Simulation Approaches with its focus on model development model justification and range of validity is the right book for you **OpenFOAM®** J. Miguel Nóbrega, Hrvoje Jasak, 2019-01-24 This book contains selected papers of the 11th OpenFOAM Workshop that was held in Guimar es Portugal June 26 30 2016 The 11th OpenFOAM Workshop had more than 140 technical scientific presentations and 30 courses and was attended by circa 300 individuals representing 180 institutions and 30 countries from all continents The OpenFOAM Workshop provided a forum for researchers industrial users software developers consultants and academics working with OpenFOAM technology The central part of the Workshop was the two day conference where presentations and posters on industrial applications and academic research were shown OpenFOAM Open Source Field Operation and Manipulation is a free open source computational toolbox that has a larger user base across most areas of engineering and science from both commercial and academic organizations As a technology OpenFOAM provides an extensive range of features to solve anything from complex fluid flows involving chemical reactions turbulence and heat transfer to solid dynamics and electromagnetics among several others Additionally the OpenFOAM technology offers complete freedom to customize and extend its functionalities

Electromagnetics Through the Finite Element Method José Roberto Cardoso, Rooney R. A. Coelho, 2025-12-09 This book presents the easiest way to learn finite element method FEM for electromagnetism from static phenomena to high frequencies in a single book based solely on Maxwell s equations All the formalism associated with FEM is presented in detail with simple numerical examples duly commented to facilitate understanding of the method Electromagnetics Through the Finite Element Method Second Edition introduces techniques for coupling magnetic phenomena with electrical circuits and demonstrates special treatment and simulation techniques for electromagnetic problems with an open domain This new edition includes a complete chapter on how to produce your own FEM software for electromagnetism quickly and easily It also includes a new section on new computer programming techniques It includes a chapter dedicated to presenting the technique for simultaneous simulation of the magnetic circuits by FEM with the analysis of electrical circuits This technique is very useful in industrial applications where it is necessary to know not only the magnetic device but also the converter that drives it This new edition will not only teach the basics of this methodology but readers will also learn about the techniques applied in industry and the computational resources to write their own FEM software using the facilities of the Python language The potential of this approach has been demonstrated for over 30 years with undergraduate students The simplified

approach presented in this new edition will not only benefit undergraduate students but will also be useful to practicing engineers and researchers looking to introduce themselves to these numerical methods

Electromagnetic Modeling and Simulation Levent Sevgi, 2014-03-13 This unique book presents simple easy to use but effective short codes as well as virtual tools that can be used by electrical electronic communication and computer engineers in a broad range of electrical engineering problems Electromagnetic modeling is essential to the design and modeling of antenna radar satellite medical imaging and other applications In this book author Levent Sevgi explains techniques for solving real time complex physical problems using MATLAB based short scripts and comprehensive virtual tools Unique in coverage and tutorial approach Electromagnetic Modeling and Simulation covers fundamental analytical and numerical models that are widely used in teaching research and engineering designs including mode and ray summation approaches with the canonical 2D nonpenetrable parallel plate waveguide as well as FDTD MoM and SSPE scripts The book also establishes an intelligent balance among the essentials of EM MODSIM The Problem the physics The Theory and Models mathematical background and analytical solutions and The Simulations code developing plus validation verification and calibration Classroom tested in graduate level and short courses Electromagnetic Modeling and Simulation Clarifies concepts through numerous worked problems and quizzes provided throughout the book Features valuable MATLAB based user friendly effective engineering and research virtual design tools Includes sample scenarios and video clips recorded during characteristic simulations that visually impact learning available on wiley com Provides readers with their first steps in EM MODSIM as well as tools for medium and high level code developers and users Electromagnetic Modeling and Simulation thoroughly covers the physics mathematical background analytical solutions and code development of electromagnetic modeling making it an ideal resource for electrical engineers and researchers

Low-Frequency Electromagnetic Modeling for Electrical and Biological Systems Using MATLAB Sergey N. Makarov, Gregory M. Noetscher, Ara Nazarian, 2015-05-12 Provides a detailed and systematic description of the Method of Moments Boundary Element Method for electromagnetic modeling at low frequencies and includes hands on application based MATLAB modules with user friendly and intuitive GUI and a highly visualized interactive output Includes a full body computational human phantom with over 120 triangular surface meshes extracted from the Visible Human Project Female dataset of the National library of Medicine and fully compatible with MATLAB and major commercial FEM BEM electromagnetic software simulators This book covers the basic concepts of computational low frequency electromagnetics in an application based format and hones the knowledge of these concepts with hands on MATLAB modules The book is divided into five parts Part 1 discusses low frequency electromagnetics basic theory of triangular surface mesh generation and computational human phantoms Part 2 covers electrostatics of conductors and dielectrics and direct current flow Linear magnetostatics is analyzed in Part 3 Part 4 examines theory and applications of eddy currents Finally Part 5 evaluates nonlinear electrostatics Application examples included in this book cover all major

subjects of low frequency electromagnetic theory In addition this book includes complete or summarized analytical solutions to a large number of quasi static electromagnetic problems Each Chapter concludes with a summary of the corresponding MATLAB modules Combines fundamental electromagnetic theory and application oriented computation algorithms in the form of stand alone MATLAB modules Makes use of the three dimensional Method of Moments MoM for static and quasistatic electromagnetic problems Contains a detailed full body computational human phantom from the Visible Human Project Female embedded implant models and a collection of homogeneous human shells Low Frequency Electromagnetic Modeling for Electrical and Biological Systems Using MATLAB is a resource for electrical and biomedical engineering students and practicing researchers engineers and medical doctors working on low frequency modeling and bioelectromagnetic applications

Electromagnetic Simulation Using the FDTD Method Dennis M. Sullivan,2000-07-20 You can immediately have the power to perform electromagnetic simulation If you have a fundamental understanding of electromagnetic theory and the knowledge of at least one high level computer language you can begin writing simple electromagnetic simulation programs after reading the first chapter of this book Electromagnetic Simulation Using the FDTD Method describes the power and flexibility of the finite difference time domain method as a direct simulation of Maxwell s equations The FDTD method takes advantage of today s advanced computing power because its computational requirements increase linearly with the size of the simulation problem This book begins with a simple one dimensional simulation and progresses to a three dimensional simulation Each chapter contains a concise explanation of an essential concept and instruction on its implementation into computer code Projects that increase in complexity are included ranging from simulations in free space to propagation in dispersive media Peripheral topics that are pertinent to time domain simulation such as Z transforms and the discrete Fourier transform are also covered Electromagnetic Simulation Using the FDTD Method is written for anyone who would like to learn electromagnetic simulation using the finite difference time domain method Appropriate as both a textbook and for self study this tutorial style book will provide all the background you will need to begin research or other practical work in electromagnetic simulation

Computational Multiphysics Simulation of Electromagnetic and Multiphase Flow Problems: Electromagnetic Field Solutions, Fluid Dynamics Interface Tracking and Coupling Phenomena Yiming Liu,2024

Electromagnetics Through the Finite Element Method José Roberto Cardoso,Rooney R. A. Coelho,2025-12-08 This book presents the easiest way to learn finite element method FEM for electromagnetism from static phenomena to high frequencies in a single book based solely on Maxwell s equations All the formalism associated with FEM is presented in detail with simple numerical examples duly commented to facilitate understanding of the method Electromagnetics Through the Finite Element Method Second Edition introduces techniques for coupling magnetic phenomena with electrical circuits and demonstrates special treatment and simulation techniques for electromagnetic problems with an open domain This new edition includes a complete chapter on how to produce your own

FEM software for electromagnetism quickly and easily It also includes a new section on new computer programming techniques It includes a chapter dedicated to presenting the technique for simultaneous simulation of the magnetic circuits by FEM with the analysis of electrical circuits This technique is very useful in industrial applications where it is necessary to know not only the magnetic device but also the converter that drives it This new edition will not only teach the basics of this methodology but readers will also learn about the techniques applied in industry and the computational resources to write their own FEM software using the facilities of the Python language The potential of this approach has been demonstrated for over 30 years with undergraduate students The simplified approach presented in this new edition will not only benefit undergraduate students but will also be useful to practicing engineers and researchers looking to introduce themselves to these numerical methods

Adaptive Mesh Refinement in Time-Domain Numerical Electromagnetics Costas D. Sarris, 2022-05-31 This monograph is a comprehensive presentation of state of the art methodologies that can dramatically enhance the efficiency of the finite difference time domain FDTD technique the most popular electromagnetic field solver of the time domain form of Maxwell s equations These methodologies are aimed at optimally tailoring the computational resources needed for the wideband simulation of microwave and optical structures to their geometry as well as the nature of the field solutions they support That is achieved by the development of robust adaptive meshing approaches which amount to varying the total number of unknown field quantities in the course of the simulation to adapt to temporally or spatially localized field features While mesh adaptation is an extremely desirable FDTD feature known to reduce simulation times by orders of magnitude it is not always robust The specific techniques presented in this book are characterized by stability and robustness Therefore they are excellent computer analysis and design CAD tools The book starts by introducing the FDTD technique along with challenges related to its application to the analysis of real life microwave and optical structures It then proceeds to developing an adaptive mesh refinement method based on the use of multiresolution analysis and more specifically the Haar wavelet basis Furthermore a new method to embed a moving adaptive mesh in FDTD the dynamically adaptive mesh refinement AMR FDTD technique is introduced and explained in detail To highlight the properties of the theoretical tools developed in the text a number of applications are presented including Microwave integrated circuits microstrip filters couplers spiral inductors cavities Optical power splitters Y junctions and couplers Optical ring resonators Nonlinear optical waveguides Building on first principles of time domain electromagnetic simulations this book presents advanced concepts and cutting edge modeling techniques in an intuitive way for programmers engineers and graduate students It is designed to provide a solid reference for highly efficient time domain solvers employed in a wide range of exciting applications in microwave millimeter wave and optical engineering

Modeling and Simulation of Coupled Electromagnetic Field Problems with Application to Model Identification and Metal Forming Jaan Alexander Unger, 2007

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