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OpenFOAM Simulation for Electromagnetic Problems

OpenFOAM is one simulation tool with manual solver compilation ability and 3D calculation capability, used for instance for computational fluid dynamics (CFD) [1] This thesis work aims at expanding the calculation range of OpenFOAM, by using C++ syntax in OpenFOAM, in order to solve electromagnetic field problems, which

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Optimising the Parallelisation of OpenFOAM Simulations

The Electromagnetic Signature Management and Acoustics group (EMSMA) has recently begun using CFD simulations to study various flow problems The main code used to perform the simulations is the open source CFD package OpenFOAM (version 222) [1] This software is designed to run in parallel and can be configured to run on effectively any

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Connecting OpenFOAM with an External Electromagnetic FDM ...

coupling OpenFOAM with a self-coded external electromagnetic solver based on the finite difference method (FDM) For this purpose, the flow of

liquid Wood's metal driven by the electromotive forces inside an induction crucible furnace (ICF) was calculated. The simulation model corresponds to ...

OpenFOAM large-eddy simulations of atmospheric boundary ...

oriented language C++, OpenFOAM (Open Field Operation And Manipulation) has been rapidly gaining prominence during the last decade [26, 6]. Applications of Open-FOAM range from classical turbulence simulation to multiphysics problems including heat and electromagnetic fields, and to financial mathematical models.

Using the FEniCS Package for FEM Solutions in ... - diyhpl

electromagnetic (EM) applications is investigated. First, several elementary problems are addressed. These include the scalar potential solution to closed- and open-boundary electro-static problems, as well as the cutoff and dispersion analysis of a hollow rectangular waveguide. Second, a selection of some

Introduction to OpenFOAM

Feb 24, 2016 · OpenFOAM overview. Open Field of Operation And Manipulation (FOAM) Free, open source CFD software package. The GNU Public License (GPL) gives freedom to contribute to any or all of these projects. Open architecture—will be detailed later.

simulating gas jets with OpenFOAM

An intense electromagnetic pulse, provided by a tions are specified in order for the simulation to continue. Unfortunately, the simulation failed using OpenFOAM, however problems were

Numerical Simulation of Flow in Lid-driven Cavity using ...

OpenFOAM is a good choice to handle CFD problems. Besides, its open-source characteristic is an advantage in the electromagnetic. Almost everything (including meshing, and pre- and post-processing) runs in parallel as standard. Numerical Simulation of Flow in Lid-driven Cavity using OpenFOAM.

Plasma Arc Welding Simulation with OpenFOAM

A simulation tool that is valid within the field of tandem arc welding (unsteady, three dimensional thermal plasma flow) has been developed, based on the open source CFD package OpenFOAM. The validation of the electromagnetic part of the solver has been done separately using a problem with a known solution. A good agreement between the numerical

Efficient solution of 3D electromagnetic eddy-current ...

Efficient solution of 3D electromagnetic eddy-current problems within the finite volume framework of OpenFOAM. Pascal Beckstein, Vladimir Galindo, Vuko Vukcevic, aHelmholtz-Zentrum Dresden-Rossendorf, Institute of Fluid Dynamics, Department of Magnetohydrodynamics, Bautzner Landstr 400, Dresden, Germany.

Flow Through a de Laval Nozzle

defined by Python script. The line that traces the axis of the simulation uses the empty boundary condition and the two faces of the wedge use the wedge boundary condition for all parameters, making the assumption of cylindrical symmetry. The outer wall of the simulation uses a slip boundary condition for simplicity as the boundary layer at

Electric welding arc modeling with the solver OpenFOAM

Electric welding arc modeling with the solver OpenFOAM - A comparison of different electromagnetic models - Isabelle Choquet¹, Alireza Javidi

Shirvan1, Håkan Nilsson2 1University West, Department

Electromagnetics Modeling in COMSOL Multiphysics

Electromagnetic Shielding • Boundary conditions for electromagnetic shielding and current conduction in shells are important for electromagnetic interference and electromagnetic compatibility calculations (EMI/EMC) • These are used to represent thin surfaces with much higher conductivity, permittivity or permeability than the surroundings

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