Multiphysics simulation

This study establishes a multiphysics coupling model of acoustics, mechanics, and electrostatics through COMSOL, systematically explores the sound field distribution and stress-strain ...

MOOSE??????? ???MOOSE MOOSE (Multiphysics Object-Oriented Simulation Environment) ?????? ?????? ??,??????????? (INL)?????? ...

As the demand for clean hydrogen grows, PEM electrolysers are gaining traction in global markets. This blog explores how multiphysics system simulation is accelerating their ...

Conclusion Multiphysics computational science is a revolutionary tool that accelerates product development across various industries. By integrating multiple physical processes into a single ...

Combine Synopsys"s leadership in EDA with Ansys"s dominance in multiphysics simulation, and you could get a platform that can model chips, packages, thermal, EM, structural, and system ...

Multiphysics Simulation and Design of a Flexible, Stem-Mounted Hybrid Piezoelectric-Triboelectric Nanogenerator Using COMSOL for Sustainable Energy Harvesting in Smart Agriculture and ...

KRATOS Multiphysics ("Kratos") is a framework for building parallel, multi-disciplinary simulation software, aiming at modularity, extensibility, and high performance. Kratos is written in C++, and counts with an extensive ...

By combining multiphysics modeling, machine learning (ML), and high-performance computing (HPC), this dissertation aims to advance our understanding and predictive capabilities for ...

Based on multiphysics simulation and Latin hypercube sampling, combined with sensitivity analysis techniques, the influence of each parameter on vibration is identified, and optimization ...

Synopsys has received final approval from China to acquire Ansys for $35 billion, creating a powerful end-to-end design platform spanning semiconductor design and system simulation, but raising ...

As integrated circuits continue to downscale and current density in interconnects increases, electromigration (EM) concerns have gained significant attention. In this study, we present an ...

Compared to traditional design methods, multiphysics simulation offers a more accurate and precise view of complex interactions in semiconductor devices, including interactions between ...

Multiphysics simulation

Learning advanced photonic simulation tools doesn"t have to be time-consuming. We"ve launched a series of one-minute learning videos that walk you through the essentials of using Tidy3D"s ...

As the demand for clean hydrogen grows, PEM electrolysers are gaining traction in global markets. This blog explores how multiphysics system simulation is accelerating their development and helping engineers meet performance, ...

The COMSOL News 2025 magazine shares the stories of nine organisations across industry that use multiphysics simulation to make better, faster decisions to drive innovation. COMSOL, a ...

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