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Multiphysics Simulation

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simulation, to a common algebraic coupling paradigm. Mathematical analysis of multiphysics coupling in this form is not always practical for realistic applications, but model problems representative of applications discussed herein can provide insight. A variety of software frameworks for multiphysics applications have been constructed

Multiphysics Simulations: Challenges and Opportunities

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Barbosa-Canovas GV, Albaali A, Juliano P, Knoerzer K (2011) Introduction to innovative food processing technologies: background, advantages, issues, and need for multiphysics modeling. In: Knoerzer K, Juliano P, Roupas P, Versteeg C (eds) Innovative food processing technologies: advances in multiphysics simulation.

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journal is on the theoretical development, numerical modelling and experimental investigations that underpin Multiphysics studies.

Journal – MULTIPHYSICS

Advances in Simulation is the official journal of the Society for Simulation in Europe (SESAM). SESAM was founded in 1994 in Copenhagen and aims to encourage and support the use of simulation in health care and medicine for the purpose of training and research.

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Innovative Food Processing Technologies: Advances in Multiphysics Simulation extensively describes the importance and the methods for applying Multiphysics modeling for the design, development, and application of these technologies.

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MULTIPHYSICS SIMULATION is a remarkable and versatile tool.

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On the medical research front, it's making advances in eye surgery possible. Kejako, a Swiss medical device company, has built a complete simulation of the human eye that models both the mechanical and optical behaviors of this remarkable organ.

COMSOL magazine MultiphysicsSimulation2018

1676 Some advances in modeling multiphysics-biomedical applications Nagi Elabbasia, Klaus-Jürgen Batheb,* a ADINA R&D, Inc., 71 Elton Avenue, Watertown, MA 02472, USA b Department of Mechanical Engineering, Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge, MA 02139, USA Abstract The finite element analysis of biomedical applications requires powerful solid, fluid ...

Some advances in modeling multiphysics-biomedical applications

Electromagnetic Design and Multiphysics Simulation for the

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Altair acquired FEKO, while Dassault Systèmes acquired CST, a package of tools for EM-centric multiphysics simulation. Simulation supports designers by allowing them to virtually evaluate several design ideas and implement physical prototypes based on the most promising concepts, as well as investigate different boundary conditions without damaging a prototype.

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