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**Computational Methods For Flow And Transport In Porous Media**  
National Institutes of Health funds research consortium led by Case Western Reserve University, Cleveland Clinic A team led by researchers from ...

### New method to predict atrial fibrillation recurrence

The Laboratories for Computational Physics & Fluid Dynamics (LCP ... accuracy in the presence of boundary layers and other sharp yet smooth flow features. We are applying this method to overcome ...

### Computational Physics & Fluid Dynamics

Numerical methods are indispensable tools in the analysis of complex fluid flows. This book focuses on computational techniques for high ... and I highly recommend it to anyone working in compressible ...

### Computational Gasdynamics

A team led by researchers from Cleveland Clinic and Case Western Reserve University have received a \$2.95 million grant over four years from the National Institutes of Health to explore how imaging ...

### Researchers receive NIH grant to explore how imaging can help predict atrial fibrillation recurrence

A particular emphasis is placed on the 'one-fluid' formulation where a single set of equations is used to describe the entire flow ... computational engineering science who are interested in the ...

### Direct Numerical Simulations of Gas-Liquid Multiphase Flows

Recent adaptations of the basic principle have included ways to use adaptive optics to enhance two-photon resolution, as a potential route to endoscopy platforms capable of carrying out deep-brain ...

### MIT enhances two-photon imaging to view deep blood vessels

The breathing zone in Capitol Theater was analyzed by individual grid cells using the same method as Abbravanel Hall ... Improvements such as refining the computational mesh further to capture the flow ...

### Mitigation strategies for airborne disease transmission in orchestras using computational fluid dynamics

This publication draws on the work carried out during an IAEA coordinated research project to benchmark computational ... design and model options and methods against 'CFD quality' experimental data ...

### Benchmarking of Computational Fluid Dynamics Codes for Fuel Assembly Design

A team led by researchers from Cleveland Clinic and Case Western Reserve University have received a \$2.95 million grant over four years from the National Institutes of Health to explore how imaging ...

### NIH funds research into new method to predict atrial fibrillation recurrence

The purpose of the PhD project is to develop new computational fluid dynamics (CFD ... fuel channel assembly to demonstrate and refine the method. The work may also include simulations of flow physics ...

### Computational thermal hydraulics for future civil nuclear reactor designs – Development of transient sub-channel CFD

Flow velocity in the fuel ... Gotoda and his colleagues used a computational model of a rocket combustor to study combustion events and combustion oscillations, using sophisticated time-series ...

### Fuel flow, pressure and heat fluctuations drive combustion oscillations in rocket engines

In desert regions and sandy coastal areas, windblown sand can bury infrastructure such as railways, and cause problems such as train derailment, grinding down rails or wheels and wearing down coatings ...

### Saving railways from sand

Yet experiments run in wind tunnels at smaller scale have difficulty accurately representing the characteristics of the flow fields. As a result, computational fluid dynamics ... using the SimScale ...

### SimScale Speeds Transient CFD Simulations

Biancolini: Mesh morphing consists of the adaption of a computational grid adopted for computer aided ... of the volume/surface mesh of the CAE model undergoing adaption). The method fits very well ...

### Mesh Morphing Explained

W. A. "Tex" Moncrief, Jr. Distinguished Professorship in Computational Engineering and Sciences - Applied Mathematics Ch.-S. Huang and T. Arbogast. An Eulerian-Lagrangian WENO scheme for nonlinear ...

### Todd J. Arbogast

Control Engineering - Engineers at CU Boulder have taken a major step forward in combing advanced computer simulations with artificial intelligence to try to predict how ...