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Torrefaction is a key step in the manufacturing process of fuel made from biomass pellets and has been studied widely in the literature [1] During and after the process, safety issues have to be managed, due to the risk of self-heating, thermal runaway and self-ignition. The physical origins of these phenomena involve heat transfer, thermochemistry and kinetics. Although these mechanisms have ...

Numerical simulation of reactive flow in granular media

...

The responsibility for the contents of the reports nevertheless lies with the authors. E. H. Hirschel Editor Preface The Colloquium on "Numerical Simulation of Flows", Marseille, November 21 and 22, th 1997, was the 6 Joint CNRS-DFG Colloquium organized in the frame of the French- German

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Research Collaboration on Computational Fluid Dynamics.

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A three-dimensional (3D) numerical model is established to simulate the flow field inside and around the gravity cages in a current. The realizable k - ϵ turbulence model was chosen to describe the flow, and the governing equations are solved by using the finite volume method. In the numerical model the cylindrical cage is divided into 16 plane nets around the circumference and a bottom net ...

Numerical simulation of the flow field inside and around

...

Riahi H. et al. (2019) Direct Numerical Simulation of Compressible Flows Around Spherical Bodies Using the Immersed Boundary Method. In: Salvetti M., Armenio V., Fröhlich J., Geurts B., Kuerten H. (eds) Direct and Large-Eddy Simulation

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**Direct Numerical Simulation of Compressible Flows
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This manuscript illustrates my main contributions for improving the reliability of the numerical simulation in Fluid Mechanics: i) the development of efficient and exible schemes for solving at low-cost stochastic partial differential equations for compressible flows, ii) various works concerning variancebased and high-order analysis, iii) the design of some low-cost techniques for the optimization ...

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Numerical Simulation of Turbulent Diffusion Flame in Cross Flow
D. MORVAN IRPHE UMR CNRS 6594 60 rue J. Curie, Technopôle
de Château Gombert , 13453, Marseille, cedex, 13, France View
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Model 2014-01-0607 This paper focuses on the numerical
simulations of flow around a realistic generic car model called
the DrivAer body. This new open-source model is based on the
geometries of two medium sized cars, the Audi A4 and the BMW
3 series, and possesses more representative car features as the

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well-known generic Ahmed body.

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Modelling atomization with phase change

To analyze the physics of energy transfer and entropy production in turbulent flows using numerical simulations. The PROMES-CNRS laboratory is located in Font Romeu and Perpignan. The hired person will work in Perpignan. About 150 persons are members of the Laboratory.

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Abstract Continuous-flow electrophoresis is a process for separating protein mixtures on a preparative scale. ... CNRS U.R.A. 192, Université Paul Sabatier, ... M. Chau, P. Spiteri, H. C. Boisson, Parallel numerical simulation for the coupled problem of continuous flow electrophoresis, International Journal for Numerical Methods in Fluids, ...

Numerical simulation of protein separation by continuous

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Numerical simulation of classical dimension parts with micrometric textures on their surface is still difficult to master. The limit condition of the calculations, and in particular, the implemented values, characteristics of the polymer and thermal exchanges (polymer/mold) strongly impact the results.

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Modelling and Simulation of Unsteady Reactive Fluid ...

A numerical simulation for magnetohydrodynamic nanofluid flow and heat transfer in rotating horizontal annulus with thermal radiation Y. Peng, A. S. Alsagri, M. Afrand and R. Moradi, RSC Adv. , 2019, 9 , 22185

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