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Computational fluid dynamics (CFD) [1] can be described as the set of techniques that assist the computer to provide the numerical simulation of the fluid flows. The three basic principles that can determine the physical aspects of any fluid are the i) energy conservation, ii) Newton's second law, and the iii) mass conservation. These flow problem can be described in terms of these basic laws.

Editorial: Recent Trends in Computational Fluid Dynamics

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The series of volumes to which this book belongs honors contributors who have made a major impact in computational fluid dynamics. This fourth volume in the series is dedicated to David Caughey on the occasion of his 60th birthday. The first volume was published in 1994 and was dedicated to Prof Antony Jameson.

Frontiers of Computational Fluid Dynamics 2006

The arriving of concurrent, high performance super computational technology provides an extraordinary opportunity for CFD to create many new science frontiers. The first and the straightforward opportunities are to address the most challenged and the least understood fluid dynamics phenomena such as the bifurcation, hysteresis, and turbulence.

Landmarks and new frontiers of computational fluid dynamics

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Landmarks and new frontiers of computational fluid dynamics

The emergence of patient-specific computational fluid dynamics (CFD) has paved the way for the new field of computer-aided diagnostics. This article provides a review of CFD methods, challenges and opportunities in coronary and intra-cardiac flow simulations. It includes a review of market products and clinical trials.

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Computational Fluid Dynamic (CFD) analyses based on the patient-specific anatomies were carried out imposing both healthy and AF flow conditions. Velocity and shear strain rate (SSR) were analysed for all cases. Residence time in the different LAA regions was estimated with a virtual contrast agent washing out.

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Computational fluid dynamics (or CFD) is a branch of fluid mechanics. Different types of numerical techniques and data structures used to examine various problems. Fluid flow (liquid or gas) can be described by the conservation laws for mass, momentum, and energy, which are governed by partial differential equations. In order to solve this problem computationally, it is necessary to replace ...

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Frontiers of Computational Fluid Dynamics 2006 by Mohamed ...

Computational fluid dynamics (CFD) represents a valuable non-invasive tool to determine and assess meaningful biophysical indicators in a complex fluid dynamics systems, such as velocity, pressure fields, cardiac blood flowrates, vorticity, turbulent kinetic energy, etc.

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