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Navier Stokes

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for Motorsports

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(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

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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.

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volumes to which
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belongs honors
contributors who
have made a
major impact in
computational
fluid dynamics.
This fourth
volume in the
series is

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dedicated to
David Caughey on
the occasion of
his 60th

birthday. The
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Prof Antony
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The arriving of
concurrent, high
performance
super
computational
technology pro-
vides an
extraordinary
opportunity for
CFD to create
many new science
frontiers. The

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first and the
straightforward
opportunities
are to address
the most
challenged and
the least
understood fluid
dynamics
phenomena such
as the
bifurcation,
hysteresis, and
tur-bulence.

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new frontiers of
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narrative of
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(CFD) is presented to highlight the cornerstone...

Introduction. In order to discuss the physics-based modeling and simulation discipline, the underlying principles must... ..

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**Landmarks and
new frontiers of
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The emergence of patient-specific computational fluid dynamics (CFD) has paved the way for the new field of computer-aided diagnostics.

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(CFD) analyses
based on the
patient-specific

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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

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virtual contrast
agent washing
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(or CFD) is a
branch of fluid
mechanics.

Different types
of numerical
techniques and
data structures
used to examine

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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

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this problem
computationally,
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Model

Geometrical
Description. A
simplified
scheme of the
systemic circuit
is presented in
Figure 1 where
conducting blood
between the

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heart and a lower limb, is given by the 3D computer aided drafting (CAD) model of a U-bend pipe with arms representing the venous and the arterial systems. The arms communicate via a porous

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baffle interface, which
surrogates the
resistance to

flow offered by
resistance

vessels (small

arteries and

arterioles)

yielding the ...

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meaningful

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indicators in a

complex fluid

dynamics

systems, such as

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