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Numerical Simulation Of Gap Flow

Paolicchi et al used the direct simulation Monte Carlo method to do numerical simulation of two-dimensional

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steady-state
hypersonic rarefied
flow in a gap at
different width-to-
depth ratios and wall
temperatures. Yang et
al developed a
hypersonic aero-
thermal simulation
method for missile
flight.

**Numerical
Simulation of
Supersonic Gap Flow**
Numerical simulation
of supersonic gap flow.

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Jing X(1), Haiming H(1),
Guo H(1), Song M(1).

Author information:

(1)Institute of
Engineering Mechanics,
Beijing Jiaotong
University, Beijing,
100044, China. Various
gaps in the surface of
the supersonic aircraft
have a significant
effect on airflows.

**Numerical
simulation of
supersonic gap flow.**

Numerical simulation

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contributes to reveal the influence mechanism of the gap on the dynamic behavior of the molten pool flow field and the penetration, which has a certain theoretical guiding significance for the process optimization and penetration control of reserved gap butt TIG welding.

**Numerical
simulation for**
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**dynamic behavior of
molten pool ...**

A comparison of the results from the numerical simulations with the experiments in spherical gap flows shows a good agreement concerning the flow structure, bifurcations and existence ranges.
Keywords: Spherical gap flow, rotating fluids, bifurcation, non-uniqueness, Taylor vortices 1.

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Numerical Simulations of Spherical Gap Flows

Numerical simulation of two-dimensional flow around a gap is accomplished using the finite volume method. From the numerical results, it can be concluded as follows:

Numerical simulation of supersonic gap flow.
- Abstract ...

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Since there have been few studies of gap flow events using high-resolution numerical models, the 9–10 December 1995 event was simulated down to 1.33-km resolution using the Pennsylvania State University–National Center for Atmospheric Research (Penn State–NCAR) Mesoscale Model version 5 (MM5) in order to gain more insight to the three-

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dimensional structures
and dynamics.

**High-Resolution
Observations and
Numerical
Simulations of ...**

The numerical
simulation of the
carrier phase flow
fields evolving in the
investigated
homogenizer was
proven to be a very
reliable method for
providing appropriate
input to theoretical

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models for the maximum drop size.

Numerical simulation and experimental study of ...

To include these complex changes in numerical simulations, a deep understanding of arc characteristics in narrow gap TIG welding should be built first. Numerical simulation has been widely used in welding

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field to investigate arc
phenomena since
1990s. A lot of
achievements have
been made.

**Numerical
simulation of arc
characteristics in
narrow gap ...**

This paper presents a
numerical study of the
gas-solid flow in a bed
by a Combined
Continuum and
Discrete Model
(CCDM). Numerical

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experiments are carried out to simulate the motion of 10,000 spherical particles of 4 mm diameter caused by lateral gas blasting into a bed with its thickness equal to the diameter of particles.

Numerical simulation of the gas-solid flow in a bed with ...

The aim of this work is to perform a numerical simulation of the

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turbulent flow in an eccentric channel for a Reynolds number $Re D_h = 7300$. The

Reynolds number is based on the bulk velocity, U_{bulk} , the hydraulic-diameter, D_h , and the kinematic viscosity, ν . To achieve this goal, a hybrid RANS/LES turbulence model called DES-SST is used. In this formulation, special functions are computed

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Numerical simulation of turbulent flow in an eccentric ...

Numerical computations were carried out at the rudder angle of 3° , as in two-dimensional computations, to confirm the capability of the bars in blocking the gap flow.

Numerical computations were performed at cavitation

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number $\sigma = (P_{\infty} - P_v) / (0.5 \cdot \rho \cdot U_{\infty}^2) = 1.0$
and operating pressure
and vapor pressure of
20307 Pa, and 2340 Pa
respectively.

**A numerical
simulation for
reduction of rudder
cavitation ...**

(2003). Numerical
simulation of gas flow
through sand core.
International Journal of
Cast Metals Research:
Vol. 15, Proceedings of

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the 5th Pacific-Rim
International Taylor
Conference on
Modelling of Casting
and Solidification
Processes—Part Two,
pp. 441-444.

**Numerical
simulation of gas
flow through sand
core ...**

Numerical
computations for the
simulation of flow
characteristics around
the gap of the horn and

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pintle sections absent of a blocking device were conducted for comparison. The results are shown in Fig. 4 where pressure distribution around the gap is

A numerical simulation for reduction of rudder cavitation ...

The proposed fractional K-BKZ numerical model successfully simulated the characteristics of

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the viscoelastic material passing through the orifice or the gap of a shock absorber, as demonstrated by accurately capturing the change of the shape of the flow. This fractional K-BKZ numerical model provided better accuracy for the fluid's viscoelasticity and can be used for shock absorber design.

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**Fractional K-BKZ
Numerical Model of
the Start-Up Flow for
Vortices**
for ...

The simulation results showed that the efficiency and pressure rise decreased when the gap increased. The efficiency of the axial blood pump at design point decreased from 37.1% to 27.1% and the pressure rise decreased from 127.4 to 71.2 mm Hg when the gap increased from

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0.1 to 0.3 mm. Return
and vortex flows were
present in the outlet
guide ...

**Numerical
Investigation of the
Influence of Blade
Radial ...**

Flow past two circular
cylinders in cruciform
arrangement is
simulated by direct
numerical simulations
for Reynolds numbers
ranging from 100 to
500. The study is

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aimed at investigating the local flow pattern near the gap between the two cylinders, the global vortex shedding flow in the wake of the cylinders and their effects on the force coefficients of the two cylinders.

Numerical simulation of flow past two circular cylinders ...

Numerical Study on the Characteristics and

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Effects of Gap Flow in Two Parallel Rotating Disks Rotating plane flow distributing pairs have been widely used in engineering. It is very important to reduce the frictional resistance between the pairs to improve the sensitivity and prolong service life.

Numerical Study on the Characteristics and Effects of Gap ...

In this study, Re is less

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than 3×10^4 , suggesting that the boundary layer flow over the side walls of the gap is in the laminar regime. Hence, the viscous fluid model does not include any turbulence model. The present numerical study can be regarded as a two-dimensional direct numerical simulation.

Two-dimensional numerical study of

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gap resonance coupling ...

In recent practices, a half circular prismatic bar protruding beyond the concave surface of the horn facing the gap has been formed along the centerplane of a rudder to lessen the gap flow between the horn and the movable portion of the rudder system. If a flow through the gap of a rudder is reduced considerably through

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this approach, previous
numerical studies
indicate that not only
the gap ...

**A numerical
simulation for
reduction of rudder
cavitation ...**

Numerical Simulation
of Heating over the
Rudder Shaft Gap in
Hypersonic Flow J.
M.Leia,* ,Y.Zhangb, Z.
W.Zhengb aSchool of
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Abstract

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