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~~WHAT IS CFD: Introduction to~~

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Hallanger et al.[21] developed a
CFD model based on the two-fluid

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model approach to simulate the three-phase flow in a 3.15mx13.1m horizontal gravity separator. They neglected the effects of gas flashing, foaming and emulsification, interactions between dispersed phases, droplet breakup and coalescence.

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Population Balance Approach ...

CFD presents the advantage of

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calculating the flow variables
locally which yields a more complete and ...

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...

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The CFD models and numerical solution settings that are tested with low- or medium-viscosity fluids do not necessarily provide satisfactory predictions for high-viscosity fluids. In this study, we report simulations of oil-water flow with viscosity ratio of $O(10^3)$

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) in horizontal pipelines with $L/d = 154$ and 197 , and the flow at the downstream of the pipelines is either fully developed or nearly fully developed.

A CFD study on horizontal oil-

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water flow with high ...
A 3D CFD model was used to simulate different configurations of an air curtain. Vertical air curtain installed outside the cold room leads a better sealing effect. The maximum sealing efficiency was observed for the down-

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blowing configuration. Twin air
curtain, leads to a sealing
efficiency comparable to a single
air curtain. Horizontal air jet
curtains show a poor sealing
efficiency compared to vertical.

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CFD modelling of aerodynamic
sealing by vertical and ...

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CFD simulation of Horizontal Axis
Wind Turbine (HAWT) using
ANSYS Fluent software. Wind

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turbines generally convert wind energy into electrical energy. Today, with increased energy demand and the expiration of fossil fuels, Cfd Modelling Of A Horizontal ...

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horizontal water film,

Computational Fluid Dynamics

(CFD), STAR-CCM+, user coding

Abstract: Master's thesis

theoretically describes

problematics of convective flow

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and evaporative process and
applies numerical approaches
related to evaporation of
horizontal water film. Based on
the review, CFD models are
developed and

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CFD Modelling of Horizontal Water
Film Evaporation
Singh JP, Kumar S, Mohapatra SK
(2017) Modelling of two-phase
solid-liquid flow in horizontal pipe
using computational fluid
dynamics technique. Int J
Hydrogen Energy

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CFD Modeling of Commercial
Slurry Flow Through Horizontal ...
Event - Webinar: CFD Modelling
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Three-Phase Separator A
Practices. Separators are commonly used in OG industry for a wide range of applications like gas-liquid separation, oil-water separation and particle separation. Their design ranges from commonly seen horizontal and vertical separators which are

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Event - Webinar: CFD Modelling
for Separators – Industry ...
One of the main factors affecting
the reliability of computational

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fluid dynamics (CFD) simulations
for the urban environment is the
Horizontal Homogeneity of the
Atmospheric Boundary Layer
(HHABL) profile—meaning the
vertical profiles of the mean
streamwise velocity, the turbulent
kinetic energy, and dissipation

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rate are maintained throughout
the streamwise direction of the
computational ...

Assessing the Horizontal
Homogeneity of the Atmospheric
...

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Simple LES modeling is shown by comparison with wind tunnel experiments to give better results than conventional RANS computation (RNG) modeling of the distribution of mean concentration. The horizontal diffusion of concentration is well

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reproduced by LES, mainly due to
the reproduction of unsteady
concentration fluctuations in the
street canyon.

CFD modeling of pollution
dispersion in a street canyon ...

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The performance and internal
Three Phase Separator A
mult iphase flow behavior in a
three-phase separator was
investigated. The separator
considered represents an existing
surface facility belonging to Abu
 Dhabi Co mpany for Onshore Oil
 Operations ADCO. A first

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Three Phase Separator. An approach, using the Eulerian-Eulerian multiphase model implemented in the code ANSYS FLUENT, assumed mono-dispersed oil and water secondary phases ...

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Three-Phase Separator: A ...

Hallanger et al. developed a CFD model based on the two-fluid model approach to simulate the three-phase flow in a 3.15m x 13.1m horizontal gravity separator. They neglected the

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effects of gas flashing, foaming
and emulsification, interactions
between dispersed phases,
droplet breakup and coalescence.

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This work focuses on the Eulerian-
Eulerian approach for modeling

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the flow of a mixture of sand
particles and water in a horizontal
pipe. Homogeneous and
heterogeneous flow regimes are
considered....

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Three different CFD models were used with respect to the modelling of turbulent dispersion and the use of certain drag correlation. The particles rope is largely not disintegrated along the vertical pipe when the

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turbulent dispersion force is not included (Fig. 7c), which is not consistent with experimental observation. This is different from the horizontal and vertical pneumatic conveying, where spatial distributions of solids concentrations remain nearly the

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CFD simulation of dilute-phase
pneumatic conveying of ...
The use of a pneumatic
conveying technique for the
transportation of drill cuttings

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within and from offshore drill rigs
is a new and challenging research
field at present. In addition to
experimental techniques,
computational fluid dynamics
(CFD) can be used for detailed
understanding of the process.
CFD modelling of pneumatic

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Three-Phase Separator. A
conveying is not very new;
however, the nature of the drill
cuttings introduces additional
challenges for the modelling
work.

A review of CFD modelling studies

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In this study, a FSI (fluid structure interaction) model for horizontal-axis wind turbine blades has been established by coupling CFD (computational fluid dynamics) and FEA (finite element analysis). The coupling strategy is based on

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one-way coupling, in which the
aerodynamic loads.

Fluid structure interaction
modelling of horizontal-axis ...
The research aims to evaluate the
aerodynamic performance of

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variable-speed fixed-pitch
horizontal-axis wind turbine
blades through two and three
dimensional computational fluid
dynamics (CFD) analysis.

Aerodynamics Analysis of Small

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Horizontal Axis Wind ...
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T1 - CFD modelling of NPP
horizontal and vertical steam
generators (SGEN) T2 - SGEN
summary report: CFD modeling of
horizontal steam generators. AU -
Pättikangas, Timo. AU - Niemi,
Jarto. AU - Hovi, Ville. AU - Rämä,

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Tommi. AU - Toppila, Timo. PY -
2009. Y1 - 2009

CFD modelling of NPP horizontal
and vertical steam ...

The CFD model based on
interFoam solver was de-

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veloped, tested and used for
numerical simulation of gas-
liquid horizontal flow. The
application of model is limited by
separated flow character. The
area of solver using is
demonstrated on Figure 1. The
characteristic of the CFD ISAIF12

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