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CFD modeling of boiling bubbly flow for DNB investigations The CFD Wall Boiling Model The

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wall surface is assumed to be split into two parts (  $A_1$  ,  $A_2$  ) each under the influence of one phase. Fraction  $A_2$  is influenced by the vapour bubbles formed on the wall and participates in the evaporation and quenching heat transfer. CFD Two Fluid Model ...

### **Cfd Modeling Of Boiling Bubbly Flow For Dnb Investigations ...**

The description of boiling two-phase flow in CFD codes is commonly based on the two- fluid approach (Ishii, 1975), (Delhaye, 1981). In this approach, a set of local balance equations for mass,...

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## **CFD modeling of boiling bubbly flow for DNB investigations**

Subcooled boiling in upward non-isothermal turbulent bubbly flow in tubes is numerically modeled using ANSYS-CFX 12 in this contribution. The approach is based on the RPI wall boiling model developed by Kurul and Podowski. The interfacial non-drag forces are also investigated and included in the model.

## **CFD Modeling of Subcooled Boiling in Vertical Bubbly Flow ...**

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investigations CFD Two Fluid Model for Adiabatic and Boiling Bubbly Flows in Ducts 31 For the bubbly flow analyzed during this study, the two-fluid model is comprised of two fields: liquid continuous ( $k = 1$ ) and dispersed bubbles ( $k = 2$ ) and the mass

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This paper focuses on the Reynolds-averaged Navier-Stokes (RANS) approach as being the most reliable for simulation of realistic bubbly flows. New physical models developed within the NURESIM...

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Technology > Volume 23, 2011 Issue 2-4 >  
COMPUTATIONAL FLUID DYNAMICS MODELING OF  
BOILING BUBBLY FLOW FOR DEPARTURE FROM  
NUCLEATE BOILING INVESTIGATIONS SJR : 0.183  
SNIP : 0.483 CiteScore™ : 0.5

## **boiling bubbly flow, CFD, DNB, fuel rod bundle - Begell ...**

This paper focuses on the modelling and the numerical simulation with the NEPTUNE\_CFD code of cavitation phenomena and boiling bubbly flows. Compressible, unsteady, turbulent 3D two-phase flow is computed by the NEPTUNE\_CFD solver, developed jointly by

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EDF R&D and CEA.

## **Modelling and computation of cavitation and boiling bubbly ...**

The PWR tests were considered in PSBT. This paper describes the use of three-dimensional computational fluid dynamics (CFD) to model the boiling two-phase flows in one of the 5-by-5 rod bundle tests. The commercial CFD software STAR-CCM+ v6.06 was used in this study. The rod bundle with all the spacers was modeled explicitly using unstructured computational grids.

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## CFD Modeling of Boiling Flow in PSBT 5×5 Bundle

The two-fluid model we use for our boiling bubbly flow calculations is constituted of the following six balance equations (e.g., ):

(i) two mass balance equations: where  $t$  is the time,  $\alpha$  denote the volumetric fraction of phase  $k$ ,  $\rho_k$  its averaged density and velocity and  $\dot{m}_{k-1}$  is the interfacial mass transfer per unit volume and unit time; the phase index takes the values for the liquid phase and for the gas phase;

## Modeling of Multisize Bubbly Flow and

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## **Application to the ...**

The turbulent convection heat flux is calculated in the CFX model version (see Winterle, 2004) in much the same way as for a pure liquid flow without boiling, but multiplied by the fraction of area unaffected by the bubbles, i.e.: (2)  $Q_C = (1 - A_W) h_C (T_W - T_L)$  Here  $h_C$  is the heat transfer coefficient which is written using the temperature wall function  $T + (y +)$  known from Kader (1981) as (3)  $h_C = \rho C_P u_{\tau} T +$  where non-dimensional variables (indicated by superscript ...

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## **CFD for subcooled flow boiling: Simulation of DEBORA ...**

CFD Modeling of Subcooled Boiling in Vertical Bubbly Flow Condition Using ANSYS CFX 12

Subcooled boiling in upward non-isothermal turbulent bubbly flow in tubes is numerically modeled using ANSYS-CFX 12 in this contribution. The approach is based on the RPI wall boiling model developed by Kurul and Podowski [1].

## **CFD Modeling of Subcooled Boiling in Vertical Bubbly Flow ...**

CFD Two Fluid Model for Adiabatic and Boiling

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Bubbly Flows in Ducts 31 For the bubbly flow analyzed during this study, the two-fluid model is comprised of two fields: liquid continuous ( $k = 1$ ) and dispersed bubbles ( $k = 2$ ) and the mass transfer across the interface is zero for adiabatic flows. Momentum conservation  $t k k w D U X w$

### **CFD Two Fluid Model for Adiabatic and Boiling Bubbly Flows ...**

Subcooled boiling in upward non-isothermal turbulent bubbly flow in tubes is numerically modeled using ANSYS-CFX 12 in this contribution. The approach is based on the

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RPI wall boiling model...

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