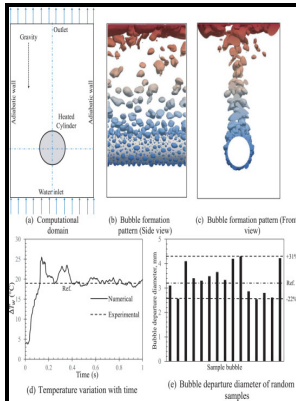


Use of Enthalpy Imbalance in Evaluating the Dryout Performance of Fuel Bundles.

s.n - Effectiveness method for heat and mass transfer in membrane humidifiers



Description: -

-Use of Enthalpy Imbalance in Evaluating the Dryout Performance of Fuel Bundles.

- Atomic Energy of Canada Limited, AECL -- 3968 Use of Enthalpy Imbalance in Evaluating the Dryout Performance of Fuel Bundles.

Notes: 1

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Heat transfer limitations on nuclear reactor fuel elements, The Canadian Journal of Chemical Engineering

That is, when a correlation is used to extrapolate outside of the experimental database it is based on, correlation predictions might be significantly different from what is expected based on physical knowledge available from unrelated experiments or sophisticated numerical analyses based on first principles. The electrical current to the heater elements can be varied in order to simulate different power levels and power distributions that can occur in a real nuclear reactor core.

The Journal of Physical Chemistry B

. The whole project consisted of the preparation of the component materials - anode, cathode, and electrolyte - and the buildup of a fuel leaking-free sample chamber with platinum leads and current collectors for measuring the electrochemical properties of single SOFCs.

The feasibility of using supercritical carbon dioxide as a coolant for the CANDU reactor

An outside iterative loop must be implemented involving a first estimate for the outlet values of absolute humidity ω_{do} and ω_{wo} , and using subsequent approximations, to obtain values to use for the absolute humidities in Eqn. . .

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The numerical solution is split into two parts. This process is also called sparging, and is relatively restricted to laboratory work, with little practical application in on-board fuel cell systems. The person skilled in the art knows how to control the power of a nuclear reactor.

The feasibility of using supercritical carbon dioxide as a coolant for the CANDU reactor

The absolute measure of water transfer rate does not adequately account for the change in available water at different flow conditions for the same humidifier; though it may be a good measure for comparing different humidifiers at the same operating conditions. As expected, the ¹H NMR spectrum of the leached polymer fraction showed a substantially higher DF than the value of the original sample. WDX analyses show that these

films prevent Cr transfer to the LSM-YSZ interface, but are susceptible to long-term loss of Cu.

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