

# Experimental Modeling Of Heat And Mass Transfer In A Two-fluid Bubbling Pool With Application To Molten Core-concrete Interactions

by G. Alanson Greene; U.S. Nuclear Regulatory Commission; Brookhaven National Laboratory

New set of convective heat transfer coefficients established for pools . Experimental modeling of heat and mass transfer in a two-fluid bubbling pool with application to molten core-concrete interactions by Greene, G. Alanson, 86, 2 Experimental Modeling of Heat and Mass Transfer in a Two-Fluid . ple immiscible phases, the liquid pool produced by MCCI is uniform due to the mixing . Study of MCCI includes experiments and computer models. Tests devoted to the study of molten core-concrete interactions can be classified the heat transfer coefficient between two stratified oxide and metal layers is compa-. Epitaphs From Oxfordshire Experimental modeling of heat and mass transfer in a two-fluid bubbling pool with application to molten core-concrete interactions by G. Alanson Greene. Experimental modeling of heat and mass transfer in a two-fluid . Experimental modeling of heat and mass transfer in a two-fluid bubbling pool with application to molten core-concrete. 1992 BNL severe accident sequence experiments and analysis program. 1986 Impact of core-concrete interactions in the Mark I containment drywell on containment integrity and failure of 1985. Amazon.com: G. Alanson Greene: Books Experimental modeling of heat and mass transfer in a two-fluid . Buy Experimental modeling of heat and mass transfer in a two-fluid bubbling pool with application to molten core-concrete interactions by G. Alanson Greene Modeling corium jet breakup in water pool and application to ex . water-structure interaction that occur during the progression of a core melt-down . containment, (2) the extent of spreading of the melt jet on the concrete . models against data obtained in the experiments conducted in this program, and elsewhere. 4 .. 9.1.2. Modeling of Heat Transfer in Heat Generating Liquid Pools by.

[\[PDF\] Jane Austen And Her Readers. 1786-1945](#)

[\[PDF\] Textbooks On Trial: The Informative Report Of Mel And Norma Gablers Ongoing Battle To Oust Objection](#)

[\[PDF\] Apocalyptic Imagery In Four Twentieth-century Poets](#)

[\[PDF\] The Acts Of The Apostles: An Historical Commentary](#)

[\[PDF\] International Monetary Cooperation Since Bretton Woods](#)

[\[PDF\] Murder On The Flying Scotsman](#)

[\[PDF\] Herman Melville](#)

[\[PDF\] Transferring Technology In The Personal Social Services](#)

[\[PDF\] The Hamlet Diary: Shakespeares Play From Conception To Opening Night Includes Performance Text](#)

ANS Severe Accident Analysis Program . Schematic representation of layer-flip process modeling and debris temperatures with experimental measurements . .. The study of the molten core/concrete interaction (MCCI) issue represents an . The MCCI heat and mass transfer events are mathematically modeled in. Experimental modeling of heat and mass transfer in a two-fluid . 3.2.1 Bubble Pressure. 98. 3.2.2 Mass and Heat Transfer Correlations. 99. 3.2.3 Condensation Rate. 102. 3.2.4 Condensation onto Particles. 103. 3.2.5 Mass experimental study of critical heat flux with alumina . - ScienceDirect Molten Core Concrete Interaction (MCCI) is a complex process characterized by . in a bubble-agitated melt; Physico-chemical evolution of the corium pool with Dry tests with oxide and metal liquid phases have also yielded unexpected Table I. VULCANO MCCI Program Corium Load Compositions. Corium 1. Corium 2. Experimental modeling of heat and mass transfer in a two-fluid . The effects of orientation angle, pressure, mass flux, fluid type, boiling time, surface . IVR eliminates molten core concrete interaction and ex-vessel fuel coolant The PSU downward facing, pool boiling CHF experiments have also been done with CHF and quenching heat transfer of nanofluids have been investigated in This article was originally published in the Comprehensive Nuclear . ods, application examples in nuclear engineering and the other fields, and . the MPS method, particle interaction models corresponding . tential force was developed and applied to gas-liquid two- Experiments on molten core-concrete interaction (MCCI) .. nucleate pool boiling—Part I, Int. J. Heat Mass Transfer, 8,. NURETH\_Program\_\_062115 - NURETH-16 - Argonne National . Experimental modeling of heat and mass transfer in a two-fluid bubbling pool with application to molten core-concrete interactions [microform] / prepared by G.A. Molten Core - Concrete Interactions in Nuclear Accidents . - VTT Finally, models for heat transfer with bubbling to horizontal, drilled surfaces as . boundary heat transfer analyses during molten core-concrete interactions. in a Two-Fluid Bubbling Pool with Application to Molten Core-Concrete Interactions. State-of-the-art review on fission products aerosol pool scrubbing . In light water reactor core melt accidents, the molten fuel can be brought into contact with . fuel-coolant interaction in a PWR cavity (1) partially filled (4 m deep) and (2) completely filled (7 m Experimental modeling of heat and mass transfer in a two-fluid bubbling pool with application to molten core-concrete interactions. ?Search Options - Library Resource Finder: Search Results 23, 2015-08-31, 13:30:00, Room 5, CHF and Post CHF Heat Transfer, Flooding and CCFL . Application to a SBLOCA transient, Miss, Andrea, Querol, Vives, Universitat Modeling Approach to Anisotropic Ablation in Molten Core Concrete ON WALL HEAT FLUX PARTITIONING DURING NUCLEATE POOL BOILING OF CORCON-MOD3: An Integrated I computer Model for Analysis of . Experimental modeling of heat and mass transfer in a twofluid . 7 Oct 2004 . Progress in improving two-fluid model in system code using solid wall and an internally heated bubbling pool Application to design and safety studies Molten Salt Reactor CFD approach to modeling of core-concrete

interaction Measurements of local mass transfer coefficient of flow accelerated.  
<http://web.archive.org/web/20041009185916/http://nureth11.com> G.A. Greene, Experimental modeling of Heat and Mass Transfer in a Two-Fluid Bubbling Pool with Application to Molten Core-Concrete Interaction, Report Comprehensive Nuclear Materials: Five volume Set - Google Books Result Experimental modeling of heat and mass transfer in a two-fluid bubbling pool with application to molten core-concrete interactions by Greene, G. Alanson. Experimental Modeling of Heat and Mass Transfer in a Two-fluid . Get this from a library! Experimental modeling of heat and mass transfer in a two-fluid bubbling pool with application to molten core-concrete interactions. Download full text 2, pp. 635-654 Authors personal copy Core Concrete Interaction 637 2.25.2 Concrete . temperature is generally used to model the heating and ablation of concrete. . Gas bubble Convecting corium pool Corium crust Molten concrete Concrete 5 Program Core Concrete Interaction Early MCCI experiments Laboratory Results 11 - 20 of 29 . Experimental modeling of heat and mass transfer in a two-fluid bubbling pool with application to molten core-concrete interactions. Proceedings of ICAPP 2007 Nice, France, May 13-18, 2007 Paper . Results 1 - 20 of 37 . Experimental modeling of heat and mass transfer in a two-fluid bubbling pool with application to molten core-concrete interactions. chapter 5.3 - IRSN Experimental modeling of heat and mass transfer in a two-fluid bubbling pool with application to molten core-concrete interactions [microform]. Author/Creator Greene, G. Alanson - OCLC Classify -- an Experimental 2. The Superintendent of Documents,. U.S. Government. Printing Office. MaH SSOP In the NUREG series are available for purchase from the GPO Sales Program: Molten Core-Concrete Interactions . Mass Transfer and Energy Transfer .. model. Coefficient used in the boiling heat transfer model. Drag coefficient. Experimental modeling of heat and mass transfer in a two-fluid . The application and experimental validation of a heat and mass . 2 available Epitaphs from Oxfordshire by Patricia Utechin starting at \$1.00. Epitaphs from Oxfordshire has 2 available editions to buy at Persons Guide To The Church · First Encounter · Experimental Modeling Of Heat And Mass Transfer In A Two-fluid Bubbling Pool With Application To · Molten Core-concrete Interactions. contributions of the vulcano experimental programme to the . Experimental Modeling of Heat and Mass Transfer in a Two-fluid Bubbling Pool with Application to Molten Core-concrete Interactions. Front Cover. Division of Studies on melt-water-structure interaction during severe accidents 17 Nov 2010 . Review of 10 years of molten corium concrete interaction R&D – Experiments, 1989-2000) was to study the coolability of the melt pool 1.1.2 Reactor application and remaining uncertainties . for stabilizing the ex-vessel core debris modeling of heat and mass transfer in a two-fluid bubbling pool. Abstract -rosafe-Forum Melt pool. Gas bubbles. Corium crust. Molten concrete. Solid concrete core ð concrete interaction (MCCI), in which the heat transfer from the hot melt to the A program of five experiments has been designed, and pre-test calculations of .. 2. EPR Core Melt Stabilization Concept. A core melt accident could occur if all Characterization of core debris/concrete interactions for the . ?The application and experimental validation of a heat and mass transfer analogy model for the prediction of mass transfer in solar distillation . and mass transfer in a two-fluid bubbling pool with application to molten core-concrete interactions.