

# Assessment Of The Combustion Model In The HECTR Code

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3-D Combustion Simulation Strategy Status, Future Potential, and . Available in the National Library of Australia collection. Author: Pong, Lichung Format: Book, Microform ix, 48 p. : ill. 28 cm. Assessment of the combustion model in the HECTR [Hydrogen Eve . 30 Jun 2015 . This observation was employed in subsequent combustion model development Direct numerical simulations are conducted using the SENG2 code (Cant, on characteristics analysis (Thompson, 1987 Thompson, K.W. 1987 The simulations were run on the UKs supercomputer facility HECTOR. HECToR » CSE Reports and Case Studies 1 Jan 1989 . The specific objective of this work is to assess the transport and mixing models in the HECTR code. 9 refs., 25 figs., 1 tab. Authors: Pong, L.T.. Human and Ecological Risk Assessment of Coal Combustion Wastes to combustion models, and dynamic descriptions of the changes following combustion (2) . A traditional class-type approach would classify each hectare by some standard to 12 man-weeks are required to code the area covered by a 7%. Safety issues at the defense production reactors: a report to the . - Google Books Result This work presents a Computational Fluid Dynamics (CFD) study of the non-premixed combustion of natural gas with air in an axisymmetric cylindrical chamber, . HECTR (Hydrogen Event: Containment Transient Response . Note. Science Applications International Corporation. Sandia National Laboratories. Distributed to depository libraries in microfiche Date published: NEA/CSNI/R(2000) - Nuclear Energy Agency Demands on an Industrial CFD Code. ? General Modeling Aspects. ? Combustion Modeling Concepts at DC Predictability of CFD Code is determined by weakest sub-model. Example of a local flow analysis for a marine engine. Assessment of the combustion model in the HECTR (Hydrogen . Assessment of the Combustion Model in the HECTR Code, Volume 88. Front Cover. Lichung Pong. Division of Systems Research, Office of Nuclear Regulatory The sensitivity of risk assessment of flash fire events to . - IChemE . REACTOR CONTAINMENT SAFETY ANALYSIS CODE, CONTAIN-LMR : (4) of the hydrogen combustion models incorporated in a CONTAIN-LMR code, The results are compared and contrasted with other stand-alone code, HECTR, One Dimensional Modeling of Catalyst for Internal Combustion . Speed and Scalability of Key Materials Science Code (CASTEP) Quadrupled by . Code (GS2) Given FFT Upgrade and Performance Analysis by HECToR dCSE Simulations (CABARET) Get Faster and Reach Bigger Models with HECToR Combustion Simulation Code (DSTAR) Enabled by HECToR dCSE Team Human and Ecological Risk Assessment of Coal Combustion Wastes evaluation tool for the severe accident scenarios involving hydrogen combustion . The combustion model in the HECTR code contains correlations for ignition Untitled - Sandia National Laboratories HECTR1.5+: Hydrogen Event Containment Response Code System. Transient Response) is a lumped-volume containment analysis program that is most useful for and combustion of hydrogen, but HECTR can also function as an experiment HECTR can model virtually all the containment systems of importance in ice MELCOR Computer Code Manual - NRC HECTR 1.5N is a modification of this code for the N-Reactor where a major concerns is It consisted of 87 events to model the core damage state, confinement Members - CMT-Motores Térmicos - UPV Various models and computer codes have been developed to predict the containment loading that may result from the combustion of hydrogen during a severe accident. A realistic evaluation of the maximum deflagration over pressure reached in the containment. mined within HECTR in a totally unrealistic way, in that the Experimental validation of combustion predictions . - CSIRO CFD Overview of coal combustion waste risk assessment . including verification that the model and model code are scientifically sound and properly executed The distribution of leak densities (expressed as number of leaks per hectare) was. Analysis of combustion in closed or vented rooms and vessels . Assessment of the combustion model in the HECTR code [Lichung Pong] on Amazon.com. \*FREE\* shipping on qualifying offers. Wildland Inventories and Fire Modeling by Gradient Analysis in . José Galindo, Héctor Climent . ASME 2006 Internal Combustion Engine Division Spring Technical Conference ASME A simulation code has been also set up to model the engine and the comparison in terms of Description and Analysis of a One-Dimensional Gas-Dynamic Model With Independent Time Discretization. improved modeling of turbulent hydrogen combustion . - CiteSeerX 12 Dec 2003 . been performed with lumped parameter models such as. MAAP, CONTAIN, HECTR and GOTHIC. Though these lumped analysis codes were Assessment of the combustion model in the HECTR code [microform . HECTR (Hydrogen Event: Containment Transient Response) is a lumped-parameter containment analysis code developed to model the containment . Assessment of the combustion model in the HECTR code: Lichung . Because our main objective is to assess the importance of modeling differences of hydrogen transport and combustion in the HECTR and MAAP codes, the . 2192. Combustion pressure estimation method of a spark ignited HECTR (Hydrogen Event: Containment Transient Response) is a lumped-parameter containment analysis code developed to model the containment . Light Water Reactor Safety - Google Books Result 6 Aug 2007 . Overview of coal combustion waste risk assessment . verification that the model and model code are scientifically sound and properly.. The distribution of leak densities (expressed as number of leaks per hectare) was. Assessment of the combustion model in the HECTR code - Indiana . The two criteria allow realistic assessments of the FA and DDT potential . For simulation of turbulent premixed combustion, three model categories are.. Code GASFLOW", AECL Report, AECL-11762 CSNI Report, values, or they may be calculated from either user-specified control functions or

the default HECTR. CiNii ?? - ICONE23-1885 DEVELOPMENT OF FAST REACTOR . spark ignited combustion engine based on vibration . model relating pressure and vibration (and average rotational speed per cycle,.. Héctor. Quintero, his contribution is on: vibration analysis, estimation models. Code 1110-669-46074. Direct Numerical Simulation of Complex Fuel Combustion with . . loads, criteria Heat transfer coefficient HECTR code High-energy pipe High-head Hydrogen burn see Hydrogen combustion Hydrogen combustion Hydrogen containment ICEDF code ICRP IDCOR study consequence analysis release Hydrogen Combustion and Its Application to Nuclear Reactor Safety . MELCOR is a fully integrated, engineering-level computer code that models the progression of . 3.14 Analysis of NTS Hydrogen Burn Combustion Tests . HECTR 1.5 code and was implemented in the code before MELCOR 1.8.0. These. Advances in Heat Transfer: Heat Transfer in Nuclear Reactor Safety - Google Books Result ?CONTAIN code (Continued) dome carryover, 280 HECTR model, 108, 117 ice . 303-306 hydrogen combustion, 108–114 Design-basis accidents (DBAs), 327 97–100 qualitative assessment of possibility of local detonations, 122 steam Assessment of combustion models for numerical simulations of a . 10 Apr 2003 . Analysis of combustion in closed or vented rooms and vessels Behavior Program and has been responsible for development of the HECTR computer code. His expertise is in the computational modeling of reacting flows. A theoretical and experimental study on the . - Science Direct Flash fire models used for the purpose of risk assessment are usually based on gas dispersion modelling . (5), a flash fire is defined as the combustion of a flammable gas or vapour and air mixture in which the flame Even where the scenario fits the type of release for which the dispersion code is designed.. 1.2 hectare. Abstract - rsicc European Community, was to improve combustion models implemented into system codes, . Comparison and assessment of the RALOC and MELCOR hydrogen burn model features have been MELCOR, based on the HECTR 1.5 code. Assessment of the Combustion Model in the HECTR Code - Lichung . Committee to Assess Safety and Technical Issues at DOE Reactors, Richard A. with the HECTR code [4,5] show that localized combustion that threatens the ?ICONE23-1885 DEVELOPMENT OF FAST REACTOR . One-dimensional modeling of internal combustion engines. Numerical methods for 1D computational gas dynamic codes. Development of experimental techniques for assessing reciprocating internal combustion Climent, Hector (1974). Probabilistic Safety Assessment in the Chemical and Nuclear Industries - Google Books Result It is essential to fully understand the combustion properties of hydrogen mixtures at . models, experimental data can be used properly as inputs to render the code.. HECTR Analysis of the Nevada Test Site (NTS) Premixed Combustion