



Report of Experimental Results for the International Fire Model Benchmarking and Validation Exercise #3

nist

Download now

[Click here](#) if your download doesn't start automatically

Report of Experimental Results for the International Fire Model Benchmarking and Validation Exercise #3

nist

Report of Experimental Results for the International Fire Model Benchmarking and Validation Exercise #3 nist

The Nuclear Regulatory Commission (NRC) and the National Institute of Standards and Technology (NIST) are participating in an International Collaborative Fire Model Project (ICFMP) to assess and validate fire computer codes for nuclear power plant applications. This assessment is being conducted through a series of benchmarking and validation exercises. The goal of the present study is to provide data from a large-scale fire test series of a simulated nuclear power plant cable room. The experimental configuration was designed to mimic a cable room including realistic ventilation, a door, an electrical junction box, as well as vertically and horizontally aligned cables and cable trays. The experiments consisted of hydrocarbon spray fires varying from 350 kW to 2 MW in heat release rate burning in a single compartment 7 m wide, 22 m long, and 4 m tall. Information on the values of the fuel flow, measured fuel flow rates, supply and exhaust ventilation flows, ambient conditions and compartment leakage needed to fully specify the boundary conditions for implementation of the fire models are included. The experimental results were composed of 15 tests with more than 370 channels of data. The measurements reported here include the following: * Heat release rates * Compartment pressure * Radiative and total heat flux at various targets in the compartment * Surface and core cable temperatures and a PVC slab temperature * Hot gas layer (HGL) temperature, depth, soot density, and concentrations of oxygen, carbon monoxide and carbon dioxide * Gas temperatures * Total heat loss from walls, ceiling, and floor * Total heat loss from the door and mechanical exhaust vent. This report includes a description of the measurement methods and experimental results for Tests conducted as part of the International Fire Model Benchmarking and Validation Exercise #3. The experimental data itself is attached as thirty files, two for each test, which are available electronically to accompany this report. The data can be used as a comparison with fire models as part of the international benchmark exercise.

 [Download Report of Experimental Results for the Internation ...pdf](#)

 [Read Online Report of Experimental Results for the Internati ...pdf](#)

Download and Read Free Online Report of Experimental Results for the International Fire Model Benchmarking and Validation Exercise #3 nist

From reader reviews:

Bobby Morrison:

Hey guys, do you desire to find a new book to learn? Maybe the book with the concept Report of Experimental Results for the International Fire Model Benchmarking and Validation Exercise #3 suitable to you? Typically the book was written by a well-known writer in this era. Often the book titled Report of Experimental Results for the International Fire Model Benchmarking and Validation Exercise #3 is the main one of several books that will everyone read now. This kind of book has inspired many people in the world. When you read this reserve you will enter the new age that you ever know before. The author explained their concept in a simple way, so all of people can easily be aware of the core of this e-book. This book will give you a great deal of information about this world now. So that you can see the represented of the world in this book.

Ginger Beals:

Reading a reserve tends to be a new life style in this particular era globalization. With reading through you can get a lot of information that could give you benefit in your life. With book everyone in this world can easily share their idea. Textbooks can also inspire a lot of people. Many authors can inspire all their readers with their story or perhaps their experience. Not only the storyplot that share in the ebooks. But also they write about the data about something that you need case in point. How to get the good score toefl, or how to teach your kids, there are many kinds of book which exist now. The authors on this planet always try to improve their skill in writing, they also doing some research before they write to their book. One of them is this Report of Experimental Results for the International Fire Model Benchmarking and Validation Exercise #3.

Paul Mackey:

A lot of people always spent their own free time to vacation or go to the outside with their loved ones or their friend. Did you know? Many a lot of people spent their free time just watching TV, or perhaps playing video games all day long. In order to try to find a new activity that's look different you can read some sort of book. It is really fun for yourself. If you enjoy the book that you just read you can spend 24 hours a day to reading a reserve. The book Report of Experimental Results for the International Fire Model Benchmarking and Validation Exercise #3 it is extremely good to read. There are a lot of individuals who recommended this book. These were enjoying reading this book. Should you did not have enough space to bring this book you can buy the e-book. You can more effortlessly to read this book from a smart phone. The price is not very costly but this book offers high quality.

Louise Guest:

Reading a reserve make you to get more knowledge as a result. You can take knowledge and information originating from a book. Book is composed or printed or descriptive from each source which filled update of news. On this modern era like right now, many ways to get information are available for anyone. From

media social including newspaper, magazines, science e-book, encyclopedia, reference book, novel and comic. You can add your understanding by that book. Are you ready to spend your spare time to open your book? Or just in search of the Report of Experimental Results for the International Fire Model Benchmarking and Validation Exercise #3 when you desired it?

Download and Read Online Report of Experimental Results for the International Fire Model Benchmarking and Validation Exercise #3 nist #3GNKT4LAZV8

Read Report of Experimental Results for the International Fire Model Benchmarking and Validation Exercise #3 by nist for online ebook

Report of Experimental Results for the International Fire Model Benchmarking and Validation Exercise #3 by nist Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Report of Experimental Results for the International Fire Model Benchmarking and Validation Exercise #3 by nist books to read online.

Online Report of Experimental Results for the International Fire Model Benchmarking and Validation Exercise #3 by nist ebook PDF download

Report of Experimental Results for the International Fire Model Benchmarking and Validation Exercise #3 by nist Doc

Report of Experimental Results for the International Fire Model Benchmarking and Validation Exercise #3 by nist Mobipocket

Report of Experimental Results for the International Fire Model Benchmarking and Validation Exercise #3 by nist EPub