

Numerical Simulation Of Reactive Flow

Elaine S. Oran, Jay P. Boris

Numerical Simulation Of Reactive Flow:

Numerical Simulation of Reactive Flow Elaine S. Oran, Jay P. Boris, 1987 This new edition takes account of the explosive growth in computer technology and the greatly increased capacity for solving complex reactive flow problems It presents algorithms for reactive flow simulations describes some trade offs involved in their use and gives guidance for building and using models of complex reactive flows Numerical Simulation of Reactive Flow Elaine S. Oran, Jay P. Boris, 2005-11-10 Reactive flows encompass a broad range of physical phenomena interacting over many different time and space scales Such flows occur in combustion chemical lasers the earth's oceans and atmosphere and in stars Because of a similarity in their descriptive equations procedures for constructing numerical models of these systems are also similar and these similarities can be exploited Moreover using the latest technology what were once difficult and expensive computations can now be done on desktop computers This new edition of a highly successful book presents algorithms useful for reactive flow simulations describes trade offs involved in their use and gives guidance for building and using models of complex reactive flows It takes account of the explosive growth in computer technology and the greatly increased capacity for solving complex reactive flow problems that has occurred since the previous edition was published more than fifteen years ago An indispensable guide on how to construct use and interpret numerical simulations of reactive flows this book will be welcomed by advanced undergraduate and graduate students and a wide range of researchers and practitioners in engineering physics and Modeling and Simulation of Reactive Flows A.L. De Bortoli, Greice Andreis, Felipe Pereira, 2015-07-10 Modelling chemistry and Simulation of Reactive Flows presents information on modeling and how to numerically solve reactive flows The book offers a distinctive approach that combines diffusion flames and geochemical flow problems providing users with a comprehensive resource that bridges the gap for scientists engineers and the industry Specifically the book looks at the basic concepts related to reaction rates chemical kinetics and the development of reduced kinetic mechanisms. It considers the most common methods used in practical situations along with equations for reactive flows and various techniques including flamelet ILDM and Redim for jet flames and plumes with solutions for both In addition the book includes techniques to accelerate the convergence of numerical simulation and a discussion on the analysis of uncertainties with numerical results making this a useful reference for anyone who is interested in both combustion in free flow and in porous media Helps readers learn how to apply applications of numerical methods to simulate geochemical kinetics Presents methods on how to transform the transport equations in several coordinate systems Includes discussions of the basic concepts related to reaction rates chemical kinetics and the development of reduced kinetic mechanisms including the most common methods used in practical situations Offers a distinctive approach that combines diffusion flames and geochemical flow problems

<u>Numerical Simulation of Reactive Flow in Hot Aquifers</u> Christoph Clauser, 2012-12-06 This product consisting of a CD ROM and a book deals with the numerical simulation of reactive transport in porous media using the simulation package

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Numerical Simulation of Reactive Flow Associated with a Lobed Fuel Injector Thomas Selerland, 1997

Numerical Simulation of Reactive Flow in Internal Combustion Engines. [CONCHAS-SPRAY Code]. ,1980 Multidimensional numerical simulations of the reactive fluid flow in an internal combustion engine cylinder are useful in helping engine designers obtain insight into the physical mechanisms governing efficiency and pollutant formation A comprehensive numerical model for internal combustion engine cylinder simulations that has been developed at Los Alamos is described The model is currently embodied in a two dimensional axisymmetric computer code called CONCHAS SPRAY Work is in progress on a three dimensional code with the same features Reactive Flows, Diffusion and Transport Willi Jäger, Rolf Rannacher, J. Warnatz, 2009-09-02 The articles in this volume summarize the research results obtained in the former SFB 359 Reactive Flow Diffusion and Transport which has been supported by the DFG over the period 1993 2004 The main subjects are physical chemical processes sharing the difficulty of interacting diffusion transport and reaction which cannot be considered separately The modeling and simulation within this book is accompanied by experiments Direct Numerical Simulation for Turbulent Reacting Flows Thierry Baritaud, Thierry Poinsot, Markus Baum, 1996 Contents Description of accurate boundary conditions for the simulation of reactive flows Parallel direct numerical simulation of turbulent reactive flow Flame wall interaction and heat flux modelling in turbulent channel flow A numerical study of laminar flame wall interaction with detailed chemistry wall temperature effects Modeling and simulation of turbulent flame kernel evolution Experimental and theoretical analysis of flame surface density modelling for premixed turbulent combustion Gradient and counter gradient transport in turbulent premixed flames Direct numerical simulation of turbulent flames with complex chemical kinetics Effects of curvature and unsteadiness in diffusion flames Implications for turbulent diffusion combustion Numerical simulations of autoignition in turbulent mixing flows Stabilization processes of diffusion flames References Numerical Simulation of Reactive Flow on the IBM ES-3090 Vector Multiprocessor Friedrich-Karl Hebeker, Rudolf Maly, Stefan Schöffel, 1992

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