

[DOWNLOAD](#)

Numerical Simulation of Oxy-fuel Combustion

By Simon Leiser

Shaker Verlag Jan 2011, 2011. Taschenbuch. Book Condition: Neu. 212x145x8 mm. Neuware - A modelling framework for the numerical simulation of oxy-fuel combustion with flue gas recycle to be applied in computational fluid dynamics was developed and validated against experimental data. Special attention was drawn on accuracy, generality, robustness and computational efficiency of the developed models. The models are tailored for the numerical simulation of future full-scale oxy-fuel boilers and are capable of exploiting computational resources of modern supercomputers. Basis of the models are the general conservation equations for mass, momentum, energy and species. A global homogeneous combustion model that accounts for the chemical effects of a high CO₂ concentration under oxy-fuel conditions by means of reversible reaction pathways was developed. The EDC turbulence-chemistry interaction models was generalised and extended to account for reactions in the surrounding fluid. The char conversion model was derived on a general physical basis to account for boundary layer diffusion and pore diffusion with chemical reaction. Kinetic constants for char gasification reactions with oxygen, carbon dioxide and water vapour have been determined. A global NO_x model for coal combustion based on literature data is proposed. Two different modelling approaches for radiative heat transfer, a spectral...



[READ ONLINE](#)
[5.41 MB]

Reviews

This sort of pdf is everything and made me searching forward plus more. Better then never, though i am quite late in start reading this one. You may like just how the author compose this book.

-- Mae Jones

Good e-book and beneficial one. it absolutely was writtern quite flawlessly and beneficial. I am delighted to explain how this is basically the very best ebook i have read through within my very own daily life and may be he greatest ebook for at any time.

-- Prof. Leonardo Parker

Other PDFs



Psychologisches Testverfahren

Reference Series Books LLC Nov 2011, 2011. Taschenbuch. Book Condition: Neu. 249x191x7 mm. This item is printed on demand - Print on Demand Neuware - Quelle: Wikipedia. Seiten: 100. Kapitel: Myers-Briggs-Typindikator, Keirsey Temperament Sorter, DISG, Eignungstest für das Medizinstudium, Adult Attachment Interview,...



Programming in D

Ali Cehreli Dez 2015, 2015. Buch. Book Condition: Neu. 264x182x53 mm. This item is printed on demand - Print on Demand Neuware - The main aim of this book is to teach D to readers who are new to computer programming. Although...



Peter Rabbit: the Angry Owl - Read it Yourself with Ladybird: Level 2

Penguin Books Ltd. Paperback. Book Condition: new. BRAND NEW, Peter Rabbit: the Angry Owl - Read it Yourself with Ladybird: Level 2, Peter Rabbit: The Angry Owl Squirrel Nutkin has lost Old Brown's glasses and the owl is not happy! Will Peter...



Peppa Pig: School Bus Trip - Read it Yourself with Ladybird

Penguin Books Ltd. Paperback. Book Condition: new. BRAND NEW, Peppa Pig: School Bus Trip - Read it Yourself with Ladybird, Peppa and her friends are going on a school bus trip. What adventures will they have when they visit the mountains? It...



Adobe Indesign CS/Cs2 Breakthroughs

Peachpit Press, 2005. Softcover. Book Condition: Neu. Gebrauch - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Adobe InDesign is taking the publishing world by storm and users are hungry for breakthrough solutions to...



The Java Tutorial (3rd Edition)

Pearson Education, 2001. Softcover. Book Condition: Neu. Gebrauch - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Praise for "The Java' Tutorial, Second Edition" includes: "This book stands above the rest because it has..."