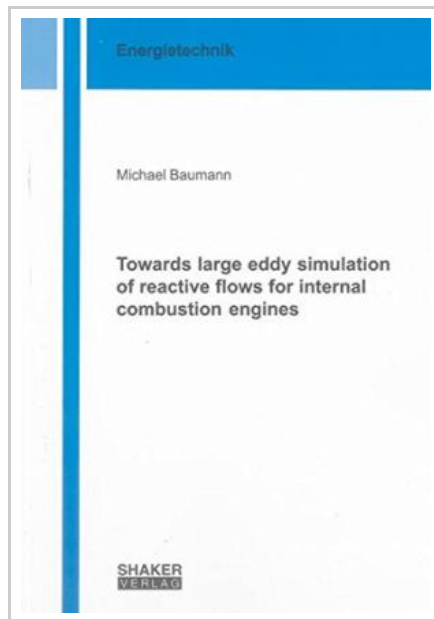




Towards large eddy simulation of reactive flows for internal combustion engines

By Michael Baumann

Shaker Verlag Jul 2013, 2013. Buch. Book Condition: Neu. 208x146x15 mm. Neuware - The present work is focused on the detailed investigation of internal combustion engines in terms of flow and combustion analysis using an advanced numerical simulation method in the framework of computational fluid dynamics. The numerical approach used in this work is based on the Large Eddy Simulation technique implemented in STAR-CD, which has the intrinsic capability to accurately observe highly unsteady phenomena of engine flow characteristics. An extended version of the Coherent Flame Model, called 3-Zones Extended Coherent Flame Model (ECFM-3Z), which provides a universal combustion modelling approach available for all modes of technical reacting flows, is applied within the LES context. The ECFM-3Z is a model specially developed, to describe the combustion process taking place in modern internal combustion engines, in which depending on the mixture different modes of combustion exists. This study provides a comprehensive validation of the LES combined with the ECFM-3Z combustion model and reveals a detailed insight into incylinder physical phenomena. After an introduction to the fluid dynamics background in the form of a mathematical and physical description of turbulent reactive flows and their numerical implementation, the ECFM-3Z LES approach is first...



READ ONLINE
[6.28 MB]

Reviews

This composed pdf is great. It usually will not cost too much. I am very easily can get a pleasure of reading a composed book.

-- **Luis Klein**

Undoubtedly, this is actually the finest work by any writer. It is really basic but excitement within the fifty percent of your publication. Your way of life period is going to be enhance as soon as you comprehensive looking over this ebook.

-- **Matt Maggio**

See Also



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...



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,...



The Java Tutorial (3rd Edition)

Pearson Education, 2001. Softcover. Book Condition: Neu. Gebraucht - 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...



Adobe Indesign CS/Cs2 Breakthroughs

Peachpit Press, 2005. Softcover. Book Condition: Neu. Gebraucht - 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...



Have You Locked the Castle Gate?

Addison-Wesley Professional. Softcover. Book Condition: Neu. Gebraucht - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Is your computer safe Could an intruder sneak in and steal your information, or plant a virus Have...



Scherzo Capriccioso, Op.66 / B.131: Study Score (Paperback)

Petrucci Library Press, United States, 2015. Paperback. Book Condition: New. 244 x 170 mm. Language: English . Brand New Book ***** Print on Demand *****.The Scherzo capriccioso was composed in the same period (1883-84) as the Symphony No.7, Op.70 and the Piano...