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Pdf Modeling of Near-wall Turbulent Flows

Apr 08 2021 Pdf methods are extended to include modeling of wall-bounded turbulent flows. For flows in which resolution of the viscous sublayer is desired, a Pdf near-wall model is developed in which the Generalized Langevin model is combined with an exact model for viscous transport. Durbin's method of elliptic relaxation is used to incorporate the wall effects into the governing equations without the use of wall functions or damping functions. Close to the wall, the Generalized Langevin model provides an analogy to the effect of the fluctuating continuity equation. This enables accurate modeling of the near-wall turbulent statistics. Demonstrated accuracy for fully-developed channel flow is achieved with a Pdf/Monte Carlo simulation, and with its related Reynolds-stress closure. For flows in which the details of the viscous sublayer are not important, a Pdf wall-function method is developed with the Simplified Langevin model.

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Deep Learning Feb 24 2020 An introduction to a broad range of topics in deep learning, covering mathematical and conceptual background, deep learning techniques used in industry, and research perspectives. "Written by three experts in the field, Deep Learning is the only comprehensive book on the subject." —Elon Musk, cochair of OpenAI; cofounder and CEO of Tesla and SpaceX Deep learning is a form of machine learning that enables computers to learn from experience and understand the world in terms of a hierarchy of concepts. Because the computer gathers knowledge from experience, there is no need for a human computer operator to formally specify all the knowledge that the computer

needs. The hierarchy of concepts allows the computer to learn complicated concepts by building them out of simpler ones; a graph of these hierarchies would be many layers deep. This book introduces a broad range of topics in deep learning. The text offers mathematical and conceptual background, covering relevant concepts in linear algebra, probability theory and information theory, numerical computation, and machine learning. It describes deep learning techniques used by practitioners in industry, including deep feedforward networks, regularization, optimization algorithms, convolutional networks, sequence modeling, and practical methodology; and it surveys such applications as natural language processing, speech recognition, computer vision, online recommendation systems, bioinformatics, and videogames. Finally, the book offers research perspectives, covering such theoretical topics as linear factor models, autoencoders, representation learning, structured probabilistic models, Monte Carlo methods, the partition function, approximate inference, and deep generative models. Deep Learning can be used by undergraduate or graduate students planning careers in either industry or research, and by software engineers who want to begin using deep learning in their products or platforms. A website offers supplementary material for both readers and instructors.

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PDF Models for Mixing in Turbulent

Reactive Flows Mar 07 2021 In modeling turbulent reactive flows based on the transport equation for the joint probability density function (PDF) of velocity and composition, the change in fluid composition due to convection and reaction is treated exactly, while molecular mixing has to be modeled. A new mixing-model is proposed, which is local in composition space and which seeks to address problems encountered in flows with simultaneous mixing and reaction. In this model the change in particle composition is determined by particle interactions along the edges of a Euclidean minimum spanning tree (EMST) constructed in composition space. Results obtained for the model problem of passive scalars evolving under the influence of a mean scalar gradient in homogeneous turbulence are found to be in reasonable agreement with experimental data. A model problem for studying turbulent nonpremixed reacting flow is proposed which captures several important features of turbulent flames. The solutions to this problem are parametrized by the Damkohler number and the reaction zone thickness parameter. At sufficiently high Damkohler number there is stable reaction, but as the Damkohler number is decreased below a critical value, global extinction occurs. The range of parameter values is chosen such that the model problem reproduces important phenomena such as stable near equilibrium reaction, local extinction and global extinction. A self-similar model thermochemistry is proposed which allows access to the parameter range of interest at reasonable computational expense. Monte Carlo simulations are performed to solve for the joint PDF of velocity, turbulent frequency and composition. Results are compared for two different mixing models: the interaction by exchange with the mean (IEM) model, and the Euclidean Minimum Spanning Tree (EMST) model. For large values of the reaction zone thickness parameter it is found that the models are in good agreement with each other and also with the simpler conditional moment closure (CMC) model. However, there are significant differences between the model predictions for values of this parameter below unity. The results support the idea that the localness principle, which is the essential feature of the new EMST mixing

model, provides a more physically accurate representation of mixing in such reactive flows. [JEE Main Practice Set 2021: Attempt JEE Mains Concepts in PDF!](#) Nov 15 2021 This exclusive JEE Main Practice Set 2021 deals with expert solved examples on 3 sections of the Mains syllabus viz. Mathematics, Physics & Chemistry. Equipped with an official answer key, download this free guide to rank top in JEE Main 2021 exam.

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A Consistent Hybrid Finite-volume/particle Method for the PDF Equations of Turbulent Reactive Flows Nov 03 2020 This dissertation describes a new hybrid finite-volume (FV)/particle method developed for the solution of the PDF equations for statistically-stationary turbulent reactive flows. In this approach, the conservation equations for mean mass, momentum and energy conservation are solved by a FV method while a particle algorithm is employed to solve the fluctuating velocity-turbulence frequency-compositions joint PDF transport equation. The mean velocity and pressure are supplied to the particle code by the FV code which in turn obtains from the particle code all the Reynolds stresses, the scalar fluxes and the reaction terms needed in the FV code. An important feature of the method is the complete consistency between the sets of equations solved by the FV and particle methods. The algorithmic and numerical issues arising in the development of the hybrid method are studied in the simple setting of the 1D stochastic ideal flow equations. The method is also extended to treat 2D non-reacting and reacting turbulent flows and it is shown that the results obtained by the present method are in a very good agreement with other PDF solution algorithms and also with available experimental data. It is shown that all the numerical errors converge at the expected rates and in contrast to the stand-alone particle method, the bias error is found to be negligibly small. The global convergence of the hybrid method is also demonstrated, and it is shown that the present hybrid method is superior to the stand-alone particle/mesh method in terms of numerical efficiency.

West Bengal Assistant Engineer

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Analysis of the Balanced Scorecard as a strategic controlling instrument with an example from the insurance industry Nov 22 2019 Bachelor Thesis from the year 2007 in the subject Business economics - Business Management, Corporate Governance, grade: 1,7, University of applied sciences, Neuss (FOM Fachhochschule für Oekonomie & Management Neuss), 127 entries in the bibliography, language: English, abstract: In view of the growing competition, the increased change in customers' wants and the potential of new communication and information technologies, more and more companies are faced with the need to permanently adjust and further develop their processes, products and offer. To be able to exist in the market, a company must be in a position to recognise future developments early and include them in the strategy. A company should therefore use management instruments which make it able to adjust strategies quickly and communicate them transparently in the whole company. There is increasing criticism of the classical controlling instruments. It is argued that controlling is supposed to provide management relevant data for the management which do not only include financial historical information as so far, but also include future related non-monetary figures. Against this background the Balanced Scorecard (BSC) is becoming more important. It extends the previous focus on finance issues to assess the performance of a company with a range of other aspects and ratios. The customer perspective, the internal process perspective and the learning and development perspective are supposed to be considered equally next to

the financial perspective in the BSC. The targets of this thesis are split into a main target and a sub target. The main target of this paper is split again into two parts: The first part of the main target is to show and to explain the relevant theoretical framework of the BSC, in particular to strategic controlling. The second part of the main target is to analyse the BSC as a strategic management system and to give an overview about this strategic controlling tool as it is seen in academic literature. The sub target of this paper is to provide a link between theory and practice by applying the theory to a current example taken from the insurance industry. The result is a recommendation for a BSC as a strategic controlling instrument for that specific insurance company. With this specific BSC for an insurance company comes also a tool for a well structured evaluation of the chances and risks involved with its application.

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