

Tarek Echekki
Epaminondas Mastorakos
Editors

Fluid Mechanics
and its Applications

Turbulent Combustion Modeling

Advances, New Trends and
Perspectives



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Modeling and Simulation of Turbulent Combustion Santanu De, Avinash Kumar Agarwal, Swetaprovo Chaudhuri, Swarnendu Sen, 2017-12-12 This book presents a comprehensive review of state of the art models for turbulent combustion with special emphasis on the theory development and applications of combustion models in practical combustion systems It simplifies the complex multi scale and nonlinear interaction between chemistry and turbulence to allow a broader

audience to understand the modeling and numerical simulations of turbulent combustion which remains at the forefront of research due to its industrial relevance Further the book provides a holistic view by covering a diverse range of basic and advanced topics from the fundamentals of turbulence chemistry interactions role of high performance computing in combustion simulations and optimization and reduction techniques for chemical kinetics to state of the art modeling strategies for turbulent premixed and nonpremixed combustion and their applications in engineering contexts

Fundamentals of Premixed Turbulent Combustion Andrei Lipatnikov, 2012-10-24 Lean burning of premixed gases is considered to be a promising combustion technology for future clean and highly efficient gas turbine combustors Yet researchers face several challenges in dealing with premixed turbulent combustion from its nonlinear multiscale nature and the impact of local phenomena to the multitude of competing models Filling a gap in the literature *Fundamentals of Premixed Turbulent Combustion* introduces the state of the art of premixed turbulent combustion in an accessible manner for newcomers and experienced researchers alike To more deeply consider current research issues the book focuses on the physical mechanisms and phenomenology of premixed flames with a brief discussion of recent advances in partially premixed turbulent combustion It begins with a summary of the relevant knowledge needed from disciplines such as thermodynamics chemical kinetics molecular transport processes and fluid dynamics The book then presents experimental data on the general appearance of premixed turbulent flames and details the physical mechanisms that could affect the flame behavior It also examines the physical and numerical models for predicting the key features of premixed turbulent combustion Emphasizing critical analysis the book compares competing concepts and viewpoints with one another and with the available experimental data outlining the advantages and disadvantages of each approach In addition it discusses recent advances and highlights unresolved issues Written by a leading expert in the field this book provides a valuable overview of the physics of premixed turbulent combustion Combining simplicity and topicality it helps researchers orient themselves in the contemporary literature and guides them in selecting the best research tools for their work

Recent Advances In Combustion

Modelling John Buckmaster, Sebastien Candel, C Kennel, B Larroturou, N Peters, Forman A Williams, 1990-11-20 This volume gathers the contributions of six world experts to a course on combustion modelling Therefore a pedagogical effort has been made in writing up these texts which cover state of the art advances in most aspects of combustion science The book is aimed at students researches and engineers as was the course

Modeling Turbulent Combustion Flows Gary E. Hill, 1979

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