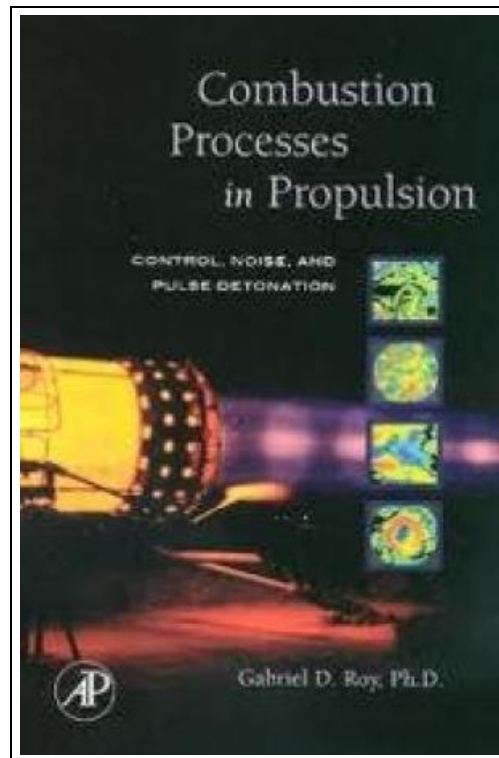


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Reviews

Very helpful to all of class of folks. This is certainly for all who statte there had not been a worthy of studying. Once you begin to read the book, it is extremely difficult to leave it before concluding.
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COMBUSTION PROCESS IN PROPULSION: CONTROL, NOISE, AND PULSE DETONATION



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Elsevier, 2011. Hardcover. Book Condition: New. 5th or later edition. Chemical propulsion comprises the science and technology of using chemical reactions of any kind to create thrust and thereby propel a vehicle or object to a desired acceleration and speed. This book focuses on recent advances in the design of very highly efficient, low-pollution-emitting propulsion systems, as well as advances in testing, diagnostics and analysis. It offers unique coverage of Pulse Detonation Engines, which add tremendous power to jet thrust by combining high pressure with ignition of the air/fuel mixture. Readers will learn about the advances in the reduction of jet noise and toxic fuel emissions?something that is being heavily regulated by relevant government agencies. Contents:- Chapter 1: Simultaneous Velocity and Temperature Field Measurements of a Jet Flame L. Lourenco and E. Koc-Alkisar 1.1 Introduction 1.2 Test Arrangement and Results 1.3 Concluding Remarks Acknowledgments Chapter 2: Infrared Absorption Tomography for Active Combustion Control F. C. Gouldin and J. L. Edwards 2.1 Introduction 2.2 Absorption Tomography 2.3 Infrared Absorption and Flow Facility 2.4 Proper Orthogonal Decomposition 2.5 Results 2.6 Concluding Remarks References Chapter 3: Deterministic and Probabilistic Approaches for Prediction of Two-Phase Turbulent Flow in Liquid-Fuel Combustors G. B. Jacobs, R.V.R. Pandya, B. Shotorban, Z. Gao, and F. Mashayek 3.1 Introduction 3.2 Direct Numerical Simulation of Countercurrent Shear Flow 3.3 Probability Density Function Modeling 3.4 Concluding Remarks Acknowledgments References Chapter 4: Large-Scale Simulations of Turbulent Combustion and Propulsion Systems A. Afshari and F. A. Jaber 4.1 Introduction 4.2 Theoretical/Computational Approach 4.3 Results and Discussion Acknowledgments References Chapter 5: Direct Simulation of Primary Atomization D. P. Schmidt 5.1 Introduction 5.2 Past Work 5.3 Objectives 5.4 Methodology 5.5 Tasks Acknowledgments References Chapter 6: Extinction and Relight in Opposed Premixed Flames E. Korusoy and J.H. Whitelaw 6.1 Introduction 6.2 Experimental Setup 6.3 Results 6.4 Concluding...



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