



Mathematical Modeling of Pulse Combustion

By WU ZHONGHUA

LAP Lambert Acad. Publ. Apr 2010, 2010. Taschenbuch. Book Condition: Neu. 223x149x13 mm. Neuware - Pulse combustion (PC) is known to offer better energy efficiency and low pollutant emission relative to steady combustion. It is being developed and used in a growing number of applications. But, very little academic literature exists to explain PC systematically. This book provides an overview of PC like its historical development, operating principles, a wide variety of designs and applications, latest research results, etc. Most importantly, this book presents how to develop the computational fluid dynamics models to simulate and analyze the PC combustion phenomena like flame structure, turbulent flow field and combustion characteristics in the burner. This book also demonstrates how the mathematical models can be used as tools to evaluate some new concept designs such as burners using bio-fuels, novel geometries and to support development of a real pulse combustor. Modeling results provide important insight into the PC process and should be specially useful for professionals and graduate students in the areas of mechanical, chemical, and aerospace engineering. 116 pp. Englisch.



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