



Unsteady Combustor Physics

By *Tim C. Lieuwen*

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Clean, sustainable energy systems are a preeminent issue of our time. Most projections indicate that combustion-based energy conversion systems will continue to be the predominant approach for the majority of our energy usage. Unsteady combustor issues pose the key challenges associated with the development of clean, high-efficiency combustion systems such as those used for power generation, heating, or propulsion applications. This comprehensive study is unique in that it treats this subject in a systematic manner. Although this book focuses on unsteady combusting flows, it places particular emphasis on the system dynamics that occur at the intersection of the combustion, fluid mechanics, and acoustic disciplines. Individuals with a background in fluid mechanics and combustion will find this book to be an incomparable study that synthesizes these fields into a coherent understanding of the intrinsically unsteady processes in combustors.

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