



Turbulent Combustion (Cambridge Monographs on Mechanics)

By Norbert Peters

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The combustion of fossil fuels remains a key technology for the foreseeable future. It is therefore important to understand combustion mechanisms, in particular, the role of turbulence within this process. This monograph presents a thorough introduction to the field of turbulent combustion. After an overview of modeling approaches, Peters considers the three distinct cases of premixed, nonpremixed, and partially premixed combustion, respectively. By demonstrating the current theories of turbulent combustion within a cohesive presentation, this book makes a unified contribution to engineering and applied mathematics.

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