



# 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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"...this reviewer believes that Turbulent Combustion will probably be counted among the most significant steps of progress in turbulence...It will serve as a thorough, ready, and reliable reference for all combustion experts and modelers." Applied Mechanical Review July 2001

"...this book gives a superb account of the modern developments in turbulence models for reacting flows, and masterfully blends asymptotics, numerics, and experiments into a cohesive description of turbulent combustion...easy and enjoyable to read." SIAM Review

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