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Fuel and oxidizer are the two essential ingredients of a combustion process. Fuels can be classified as substances that liberate heat when

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be abundant and
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These are lecture notes for AME 60636, Fundamentals of Combustion, a course taught since 1994 in the Department of Aerospace and Mechanical Engineering of the University of Notre Dame. Most of the students in this course are graduate students; the course is also

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combustion and provide a simplified discussion of basic combustion parameters and processes such as thermodynamics, chemical kinetics, ignition, diffusion and pre-mixed flames.

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in the combustion process to produce nitrogen oxides. Also,

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many fuels contain elements other than carbon, and these elements may be transformed during combustion. Finally, combustion is not always complete, and the effluent gases contain unburned and partially burned products in addition to CO₂ and H₂O.

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Although combustion
processes often involve
chemical reactions that
may be far from
equilibrium, the

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