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in the combustion process to produce nitrogen oxides. Also, 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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Sara McAllister, Jyh-Yuan Chen, A ... - Internet Archive

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 suitable for interested undergraduates.

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Highlights Solution combustion synthesis (SCS) is an effective method for preparing robust solid catalysts. Multi-functional and nano-structured catalysts can be prepared by SCS method. SCS-prepared catalysts can be synthesized under controlled or uncontrolled thermal treatment. O/C ratio can rationalize the presence or absence of residual carbon in the SCS-prepared catalysts.

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Fundamentals of Combustion Processes | Sara McAllister ...

Fuel and oxidizer are the two essential ingredients of a combustion process. Fuels can be classified as substances that liberate heat when reacted chemically with an oxidizer. Practical application of a fuel requires that it be abundant and inexpensive, and its use must comply with environmental regulations.

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