AME 514
Applications of Combustion
Spring 2018, OHE 100B, W 11:00 am - 1:40 pm

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References:
2. Unpublished notes updated yearly, by C.K. Law & F.N. Egolfopoulos (will be provided as needed).

Prerequisite: AME 513 (Principles of Combustion) or equivalent

Topics:
Review of Principles of Combustion
Aerodynamics of Laminar Flames
Ignition and Extinction Phenomena
Turbulent Reacting Flows
Combustion in Boundary Layer Flows
Combustion in Supersonic Flows
Combustion at Extreme Thermodynamic Conditions
Introduction to Modeling of Reacting Flows

Grading: Midterm Exam March 21 (W) (11:00 am-12:30 pm) 35%
Final Exam May 2 (W) (11:00 am-1:00 pm) 35%
Homework Assignments 30%

Note: The use of laptops or cell phones to access the internet/e-mail during class and/or exams is not allowed. Such devices are allowed only to access material pertaining to the class.