AME 514
Applications of Combustion
Spring 2019, 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 Unpublished notes updated yearly, by C.K. Law & F.N. Egolfopoulos (will be provided as needed).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
Introduction to Modeling of Reacting Flows
Detailed Flame Structure
Ignition and Extinction Phenomena
Turbulent Reacting Flows
Detonations
Environmental Combustion Considerations

Grading:
Midterm Exam      March 20 (W) (11:00 am-12:30 pm)  30%
Final Exam        May 1 (W) (11:00 am-1:00 pm)   30%
Homework Assignments  40%

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.