

MECH 652. DYNAMICS OF COMBUSTION.

Credits: 4

Offered by: Mechanical Engineering (Graduate Studies)

Terms offered: Fall 2025

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Description

Chemical thermodynamics and chemical kinetics, Hugoniot analysis of reacting flows, conservation equation for reactive mixtures, Reacting couette flows, boundary layers and shear layers. Laminar premixed flames, Detonation theory and ZND structure. Stability of flames and detonations, limits, ignition energies and quenching distance, dynamic parameters of detonations.

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