2.996 Fundamentals of Advanced Energy Conversion Lecture Memo

Lecture number: 18 Date: April 12th, 2004

- Flames in SI engines
- Laminar and turbulent burning velocities
- Microscopic flame structure
- Two zone model
- Dependency of Su on thermal diffusivity and characteristic time scale
- Dependency of Su on equivalence ratio
- Stratification and turbulence generation in engines
- Knock