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ME 259(AUG) 3:0
Thermodynamics

Instructor(s): Pradip Dutta, Pramod Kumar, R V Ravikrishna, Susmita Dash, Navaneetha Krishna Ravichadran

Course description:
Concepts of thermodynamics, zeroth law, first law, properties of pure substances and mixtures, first order phase transitions, thermophysical properties, energy storage; second law; energy analysis of process and cycle; calculation of entropy and entropy diagrams; availability analysis, chemical equilibrium, non-equillibrium thermodynamics, multi-phase-multi component systems, transport properties; third law

Prerequisites:

1. "Fundamentals of Classical Thermodynamics",by G. Van Wylen,R. Sonntag and C. Borgnakke
2. "Fundamentals of Engineering Thermodynamics",by Moran and Shapiro
3. "Advanced Thermodynamics for Engineers" by Kenneth Wark,Fluid Flow: A First Course in Fluid Mechanics

Resources:

Outcomes:

Additional information:

Course website: