Course Announcement: Spring 2006

ChE 515: Transport Phenomena

A core graduate course in momentum, mass and energy transport

Wednesdays 7:00-9:40 pm

Objectives

- Introduce students to the basic and advanced concepts of conservation principles underlying momentum, mass and energy transport
- Develop mathematical equations to quantify the phenomena and the techniques to obtain the solutions of these equations

Course Content

- Equations of Continuity and Motion
- Laminar and Viscous Flow – Velocity Distributions
- Shell Momentum and Energy Balances
- Mass Transport Mechanisms and Concentration Distributions
- Analogies in Transport Phenomena

Outcome

Competence in Analysis (Modeling and Solution) of Systems with respect to Transport Phenomena occurring within its Boundaries

Contact

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