ADVANCED MASS TRANSFER
Course No. ChMC21
Credits: 3 (3-0-0)

Syllabus

Characterization of Separation processes, Simple equilibrium processes, multistage separation processes, Binary multistage separation, Binary multistage separations-general graphical approach, Energy requirements of a separation process, Equilibrium and simple distillation - Multi-component, Fractional distillation - Multi- component.

Book:
C. Judson King, Separation Processes, Tata McGraw Hill Book Company, 2nd Edition, New Delhi, 1983.

Resources to be used:
Please read the following pages from given book and see the videos on NPTEL as given below:

Sub Topic	Book (C. Judson King, Separation Processes) Page No.	NPTEL Link
Characterization of Separation processes,	Page No. 17-45	https://nptel.ac.in/courses/103105052/ Modules/Lectures: Multicomponent Transport
Simple equilibrium processes,	Page No. 59-80	
Multistage separation processes	Page No. 140-195	
Binary multistage separation	Page No. 206-250	
Binary multistage separations-general graphical approach	Page No. 258-296	
Energy requirements of a separation process	Page No. 660-721	
Equilibrium and simple distillation - Multi-component	Page No. 446-503	
Fractional distillation - Multi-component.		