

ChBC-62 - Mass Transfer –II (NPTEL Video Lectures)		
Distillation: Vapor liquid equilibria for ideal and non-ideal systems. Relative volatility. Azeotropes, Enthalpy-concentration diagrams. Single stage flash vaporization. Partial condensation. Differential distillation for binary systems. Fractionation, McCabe-Thiele and Ponchen-Savarit methods for multistage operations. Reflux, reflux ratio and optimum reflux ratio. Reboilers. Total and partial condensers. Tray efficiencies. Azeotropes, extractive and steam distillations.		
Lec-1	https://www.youtube.com/watch?v=CJWkt-pGY28&feature=emb_logo	Distillation
Lec-2	https://www.youtube.com/watch?v=1wcefj5dRUc&t=33s	Distillation
Lec-3	https://www.youtube.com/watch?v=5Wgp8btOGB8	Distillation
Lec-4	https://www.youtube.com/watch?v=lfq1Fc5WB9Q	Distillation
Lec-5	https://www.youtube.com/watch?v=8wpkzXINtiQ	Distillation
Lec-6	https://www.youtube.com/watch?v=VtmxvxHeU30	Distillation
Lec-7	https://www.youtube.com/watch?v=hGeXndJB-NM	Distillation
Lec-8	https://www.youtube.com/watch?v=co0Zo8XiXJQ	Distillation
Lec-9	https://www.youtube.com/watch?v=l03BA3UP7go&feature=emb_logo	Distillation
Lec-10	https://www.youtube.com/watch?v=odPBonrMIY4&feature=emb_logo	Distillation
Lec-11	https://www.youtube.com/watch?v=byX4CogJPNM	Distillation
Extraction: Ternary liquid equilibria, calculation of single stage, multistage cocurrent and multistage counter current operations.		
Lec-12	https://www.youtube.com/watch?v=u0XlklBxrpU	Extraction
Lec-13	https://www.youtube.com/watch?v=fCjyq6PXRGS	Extraction
Lec-14	https://www.youtube.com/watch?v=1KvpUew4Q_I	Extraction
Lec-15	https://www.youtube.com/watch?v=k_VlcyHJHNw	Extraction
Lec-16	https://www.youtube.com/watch?v=tcOPOnGT6rE&feature=emb_logo	Extraction
Lec-17	https://www.youtube.com/watch?v=G6oDB_Nzmd4&feature=emb_logo	Extraction
Adsorption: Adsorption equilibria, calculations for vapor, gas and liquid adsorptions. Adsorption operations such as single stage, multi stage, cocurrent and multistage countercurrent operations. Equipments.		
Lec-18	https://www.youtube.com/watch?v=GzEHe4rXSu4&feature=emb_logo	Adsorption
Lec-19	https://www.youtube.com/watch?v=waCSSnEW8y8&feature=emb_logo	Adsorption
Lec-20	https://www.youtube.com/watch?v=0cH0agBpmTo&feature=emb_logo	Adsorption
Lec-21	https://www.youtube.com/watch?v=NqAGK09GRkc&feature=emb_logo	Adsorption
Lec-22	https://www.youtube.com/watch?v=FfipvOgin0A&feature=emb_logo	Adsorption
Leaching: Principles. Equilibria, Calculations of single stage and multistage leaching processes equipment.		
Lec-23	https://www.youtube.com/watch?v=vNFSnxOX0WQ&feature=emb_logo	Leaching
Lec-24	https://www.youtube.com/watch?time_continue=187&v=m8ItDj8XO90&feature=emb_logo	Leaching
Lec-25	https://www.youtube.com/watch?v=uYit6N-IIEI&feature=emb_logo	Leaching