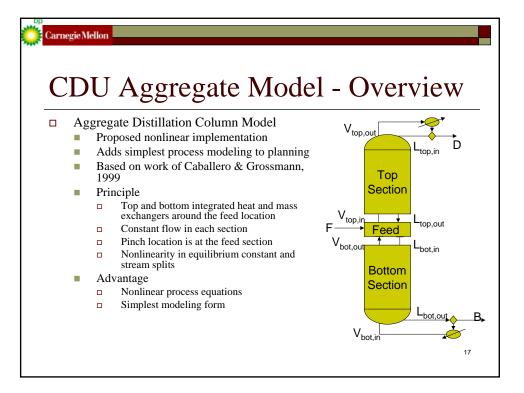
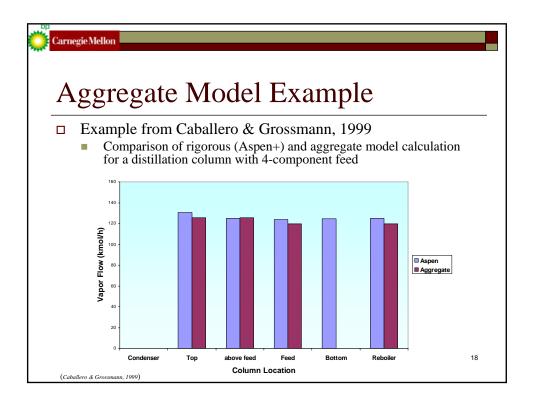
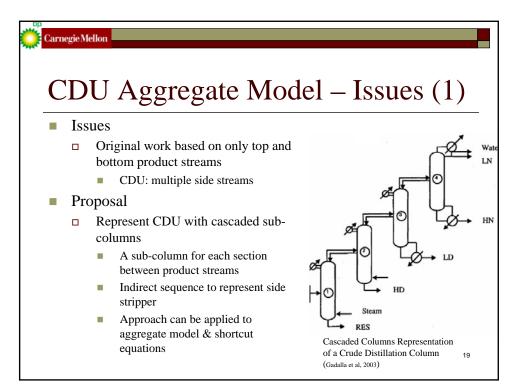


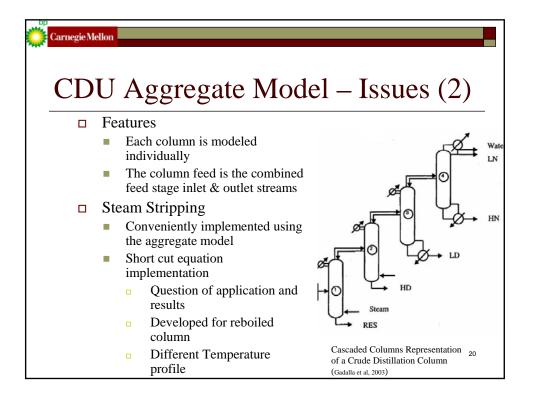
Complex Re	efinery	V Example	- Da	ta
Final Products Demand		Unit Capacity and Cru		
	Demand	kt	Min	Max
Final Products	(<i>kt</i>)	Crude Distillation Unit		700
LPG	11	Defermine Conceitu		
Light naphtha	6	Reforming Capacity		
Premium Gasoline (98 mogas)	20	95 severity	2	
Regular Gasoline (95 mogas)	80	Total		60
Jet Fuel	70	Total Cracking Capacity		135
Gas Oil	160	Desulfurization Capacity		150
Fuel Oil	148	Crude 1 (lighter)		400
Fuel Oil (Refinery use)	15.2	Crude 2 (heavier)	260	

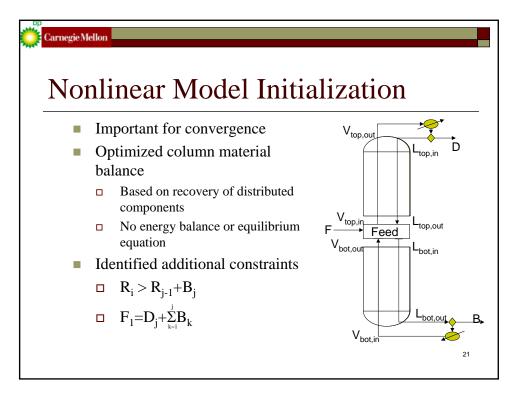
Complex Re	finery Exam	ple - Resi	ults
		Fixed yield	Swing cut
Crude Feedstock	Crude1 (lighter)	142	(
	Crude2 (heavier)	289	469
Other Feedstock	Heavy Naphtha	13	9
Refinery Production	Fuel Gas	13	17
	LPG	18	20
	Light Naphtha	6	6
	Premium Gasoline	20	20
	Reg. Gasoline	80	92
	Gas Oil	163	17(
	Fuel Oil	148	160
	Net Cost	89663	85714
	Net Cost	89663	8571

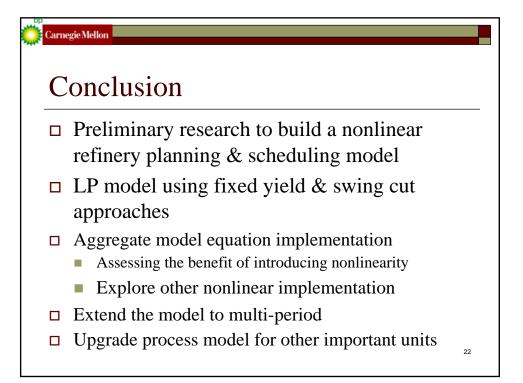












Carnegie Mellon Optimal Model-Based Production Planning for Refinery Operation

Thank you

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