Answer Sheet for CHE654 Homework Set #6 (100 points)

40. (25 p	oints) <i>Purif</i> y	ving a Wastewater Stream
Conde	enser temper	ature in Column 1 =°C
Molar	distillate to	feed ratio in Column 2 =
42. (25 p	oints) Flows	sheet Convergence, II
(a) S	cheme 1:	Tear streams:
		Your convergence algorithm:
Sc	heme 2:	Tear streams:
		Your convergence algorithm:
Тс	otal flow rate	e of Stream 6 = lbmol/hr
M	ole fraction	of benzene in Stream 4 =
M	ole fraction	of <i>n</i> -butane in Stream 7 =
al co	Igorithms we convergence v esting.)	gence scheme 1: (Be very specific with your answer, e.g. what ere used to converge tear streams and design-specs and whether the was simultaneous or nesting, and if nesting what was the order of
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Your convergence scheme 2: (Be very specific with your answer, e.g. what algorithms were used to converge tear streams and design-specs and whether the convergence was simultaneous or nesting, and if nesting what was the order of nesting.)

Vapor fraction in FLASH-1 =	
(a) Using A+ and automatic convergence and se water feed flow in Stream Feed and the split Water flow rate in Stream Feed = Split fraction in Block B going to Stream 2 = Also, write down the CPU seconds required flowsheet. Simulation time in CPU seconds: (b) You undoubtedly noticed that, because of the problem took some time to converge (on my seconds before Report Writer is entered). Proposed to convergence schemes and use them to convergence allowed to initialize the tear streams and each initialization, i.e. purge all the results first be	_
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problem took some time to converge (on my seconds before Report Writer is entered). Proconvergence schemes and use them to convergence aim is to cut down the CPU time by he allowed to initialize the tear streams and each initialization, i.e. purge all the results first be	
Briefly write down your two schemes:	y laptop, this CPU time was nearly propose two different Level 3 erge the flowsheet in Part (a) again, alf or less. In both cases, you are not be run must start with a re-
Briefly write down your two senemes.	
Scheme 1:	

Sc.	heme 2:
CF	PU seconds of Scheme 2:
5. (25 pc	oints) Flowsheet Convergence, V
(a) <u>An</u>	swer the following questions:
Yo	ur convergence scheme:
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Tot	ral flow rate of Stream 11 = lbmol/hr
(b) <u>An</u>	nswer the following questions:
Yo	ur convergence scheme:
	it fraction of SPLIT-1 for Stream 5 =