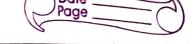
Solution Q.3



	11						And the second s
Stroom	n N o	FlowRad		-	1 ., ~	7	1
		120010	u q	Tin	Tout	Type	(DHXKW)
1		0.00	A. A		}		\
2		2.50	0.8	300	150	Hot	- 200
			0.8	150	50	Not	- 200
3	1.	3.00	1.0	200	50	not :	-450
4		6.25	0.8	190	290	Cold	+500
5		(0.00	0.8	30	190	cold	+800
6	7	4:00	(·O	40	(90	Cold	+ 600
,						<u>'</u> .	
m	Cp	8	2	3	5	8 4	
	ream	1	2	3 1	•	5 6	i, i
N	1						
feed @ 300	D	\	4	· (1)		5° ° C	
4 -	-	Renc	tor 1	1 11-		Reactor	2
	0	120.5C	15	o°C		140	*c
/ / /	1,7		→ .		10.2	(3)	2.1
	Vert (90 cy 190 °C						
Red@2	•°°C		*,;;	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4		X 2 3
Peg 4		 			(9	• °C	
	So*	'c	, 1	1	3.74 A		
			. 11	*	, n	j	Ψ
		90°C		. 9	0.40	3.8	Product
		.,			40 j		290°C





In hot Stream 1-

	2 1 F			
	DT	composite mi	Ĵp	DM-re Coverage
	200-300		P.0	-800
	150-200	11	j "C	- 550
	50-150	5	5 4 1	- 500
	1	, (S	(-1	
	m cold	Streams		(MW)
	DT hi	Composite in Cp	~,)	DM the Consuge
	190-290	5		♦ · 5 oro
$\ $	90-190	12	<u></u>	01.200
+	-	11		0 1 2ero
	40-90			

From the graph, we can see that DImin=10°C first occurs at the point when cold stream 15 at 80°C orhen me are bringing closer two streams curve together. so, pinch temperature 290°C

Also, from the graph.

freat orchange load = 1.8 Mw Not utility = 0.1 mw cold Utility - 0.05 MW

