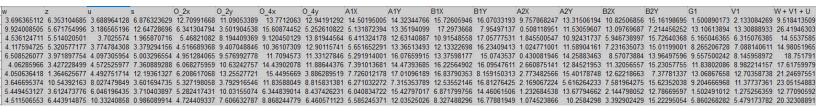
Supporting Documentation

Tchemon Coulibaly Sam Maruska

NOTE: Since there is a probability of keeping solutions in order to have a varied solution set. Upon each run, the user may get a mechanism smaller than the example, but not by a significant factor.



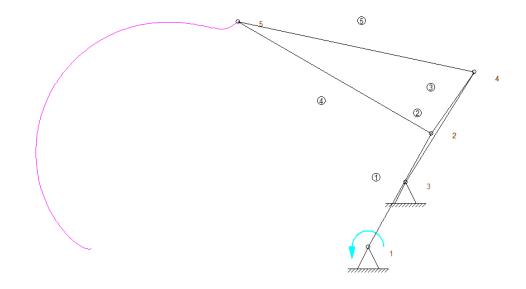
Selected Solutions of MATLAB code output. Each row is an individual solution.

The Example solution that follows is from the first row.

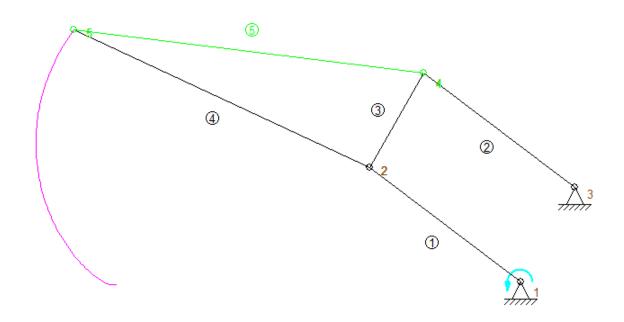
Page 2: P1 position of SAM mechanism P2 position of SAM mechanism

Page 3: Position as a function of Theta from P1 to P2

SAM Mechanism at P1:



SAM Mechanism at P2:



XY Data as a function of theta for point P.

Theta	Рх	P_y
[deg]	[in]	[in]
61	9	17.5
62	8.868	17.396
63		
64	8.676	
65	8.597	17.297
66	8.524	17.295
67	8.454	17.299
68	8.387	17.307
69		17.318
70	8.255	17.329
71	8.189	17.342
72		17.355
73	8.06	17.369
-	7.996	
75	7.931	17.394
76	7.867	17.406
77		
78		
79		
80		
81	7.544	
	7.479	
_	7.415	
84		
85		
86		
87		
88		
89		
90		
91		
92		
93		
94		
95		
96		
97		
98		
99		
100	6.314	17.424

Theta		P_x	P_y
[deg]		[in]	[in]
	100	6.314	17.424
	101	6.25	17.412
	102		17.398
	103		17.384
	104	6.061	17.368
	105	5.998	17.352
	106	5.936	17.334
	107	5.874	
	108	5.812	
	109	5.751	17.275
	110	5.69	17.253
	111	5.629	17.23
	112	5.569	17.206
	113	5.509	17.181
	114	5.45	17.155
	115	5.391	17.128
	116	5.333	17.1
	117	5.275	17.071
	118	5.218	17.041
	119	5.161	17.01
	120	5.105	16.978
	121	5.049	16.946
	122	4.994	16.912
	123		16.877
	124		16.841
	125	4.832	16.804
	126	4.78	16.767
	127		16.728
	128		16.689
	129 130	4.626 4.576	16.649
	131	4.576	16.608 16.566
	132 133		
	134		
	135		
	136		
	137		
	138		
	139		
	140		
	141	4.12	
	141		
	147	4.009	10.031

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