

Figures and Plots Referenced in README.md

Figure 1. Regression Plot

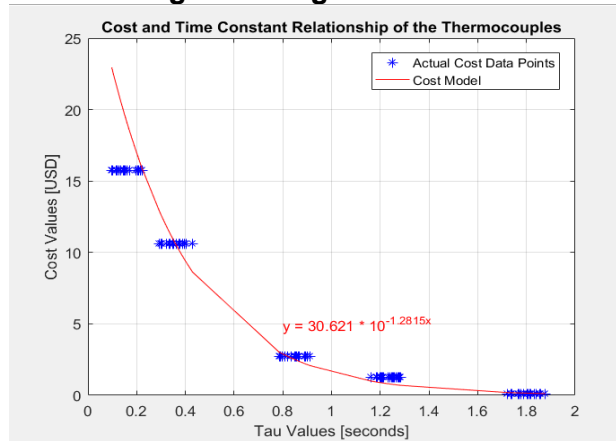


Table 1. Algorithm performance comparison to HEATING calibration parameters

Parameter	M4 Algorithm		HEATING	
			Actual	
	Clean	Noisy	Clean	Noisy
y_L	0.25 °C	-1.51 °C	0.25 °C	-0.96 °C
y_H	99.40 °C	99.01 °C	99.38 °C	98.75 °C
t_s	1.37 sec	1.84 sec	1.37 sec	1.84 sec
τ	0.21 sec	1.39 sec	0.21 sec	1.35 sec
SSE_{mod}	0.004 °C ²	2.437 °C ²	0.003 °C ²	2.647 °C ²

Table 2. Algorithm performance comparison to COOLING calibration parameters

Parameter	M4 Algorithm		COOLING	
			Actual	
	Clean	Noisy	Clean	Noisy
y_H	100.06 °C	97.21 °C	100.06 °C	97.99 °C
y_L	-0.94 °C	-0.30 °C	-0.93 °C	-0.01 °C
t_s	1.03 sec	1.95 sec	1.02 sec	1.93 sec
τ	1.90 sec	0.97 sec	1.92 sec	1.03 sec
SSE_{mod}	0.339 °C ²	3.540 °C ²	0.529 °C ²	4.543 °C ²

Table 3. Algorithm performance comparison for FOS designs

Model Number	M3 Algorithm			M4 Algorithm		
	τ Characteristics		Mean SSE_{mod}	τ Characteristics		Mean SSE_{mod}
	Mean	Standard Deviation		Mean	Standard Deviation	
FOS-1	0.16s	0.038s	1.205 °C ²	0.16s	0.040s	1.091 °C ²
FOS-2	0.36s	0.039s	1.085 °C ²	0.36s	0.038s	1.053 °C ²
FOS-3	0.85s	0.044s	1.085 °C ²	0.85s	0.042s	1.064 °C ²
FOS-4	1.24s	0.037s	1.151 °C ²	1.23s	0.035s	1.225 °C ²
FOS-5	1.79s	0.036s	1.408 °C ²	1.80s	0.043s	1.370 °C ²