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INTRODUCTION TO NONLINEAR OPTIMIZATION

*Theory, Algorithms, and
Applications with MATLAB*

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MATLAB: SIMULINK, OPTIMIZATION TOOLBOX



1-6 This and the following problem may be the student's first experience with a figure of merit.

- Formulate fom to reflect larger figure of merit for larger merit.
- Use a maximization optimization algorithm. When one gets into computer implementation and answers are not known, minimizing instead of maximizing is the largest error one can make.

$$\sum F_V = F_1 \sin \theta - W = 0$$

$$\sum F_H = -F_1 \cos \theta - F_2 = 0$$

From which

$$F_1 = W / \sin \theta$$

$$F_2 = -W \cos \theta / \sin \theta$$

fom = $-S = -\epsilon y$ (volume)

$$\dot{=} -\epsilon y (l_1 A_1 + l_2 A_2)$$

$$A_1 = \frac{F_1}{S} = \frac{W}{S \sin \theta}, \quad l_2 = \frac{l_1}{\cos \theta}$$

$$A_2 = \left| \frac{F_2}{S} \right| = \frac{W \cos \theta}{S \sin \theta}$$

$$\text{fom} = -\epsilon y \left(\frac{l_2}{\cos \theta} \frac{W}{S \sin \theta} + \frac{l_1 W \cos \theta}{S \sin \theta} \right)$$

$$= \frac{-\epsilon y W l_2}{S} \left(\frac{1 + \cos^2 \theta}{\cos \theta \sin \theta} \right)$$

Set leading constant to unity

θ°	fom	
0	$-\infty$	$\theta^* = 54.736^\circ$ Ans. fom* = -2.828
20	-5.86	
30	-4.04	Alternative: $\frac{d}{d\theta} \left(\frac{1 + \cos^2 \theta}{\cos \theta \sin \theta} \right) = 0$ And solve resulting transcendental for θ^* .
40	-3.22	
45	-3.00	
50	-2.87	
54.736	-2.828	
60	-2.886	

Check second derivative to see if a maximum, minimum, or point of inflection has been found. Or, evaluate fom on either side of θ^* .



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