

Cross-Sectional Area Constraint:  $(w_1 + w_2)(H_1 + H_2 + 1)/2 = 150$  or

$$h_1 = (w_1 + w_2)(H_1 + H_2 + 1)/2 - 150 = 0;$$

Excavated Material Constraint:  $(w_1 + w)(H_1/2) = (2)(w_2 + 2)(H_2 + 1)/2$  or

$$h_2 = (w_1 + w)(H_1/2) - (w_2 + 2)(H_2 + 1) = 0$$

The design variables are not independent; they are related as follows:

$$\tan \theta = \frac{H_1}{(w - w_1)/2} = \frac{H_2 + 1}{(w_2 - 2)/2} = \frac{H_1 + H_2 + 1}{(w_2 - w_1)/2}$$

So we get two more constraints from these relationships, as

$$h_3 = \frac{H_1}{w - w_1} - \frac{H_2 + 1}{w_2 - 2} = 0;$$

$$h_4 = \frac{H_1}{w - w_1} - \frac{H_1 + H_2 + 1}{w_2 - w_1} = 0$$

All the design variables must also be nonnegative:

$$-w \leq 0; \quad -w_1 \leq 0; \quad -w_2 \leq 0; \quad -w_3 \leq 0; \quad -H_1 \leq 0; \quad -H_2 \leq 0$$

### **Formulation 2:**

#### **Step 1: Problem Statement**

Shown above

#### **Step 2: Data and Information Collection**

Shown above

#### **Step 3: Definition of Design Variables**

$w_1$ ,  $H_1$ ,  $H_2$  (m), and  $s$  (unitless) are chosen as design variables which are defined below in relation to Figure E2.22:

$$s = \tan \theta$$

$$w = w_1 + \frac{2H_1}{s}$$

$$w_2 = w_1 + \frac{2(H_1 + H_2 + 1)}{s}$$

$$w_2 = 2 + \frac{2(H_2 + 1)}{s}$$

#### **Step 4: Optimization Criterion**

Optimization criterion is to minimize the volume of excavation, and the cost function is defined as:

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**Zuomin Dong**



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