Cross-Sectional Area Constraint: $(w_1 + w_3)(H_1 + H_2 + 1)/2 = 150$ or
$h_1 = (w_1 + w_3)(H_1 + H_2 + 1)/2 - 150 = 0;$
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:

$$\tan \theta = \frac{H_1}{(w - w_1)/2} = \frac{H_2 + 1}{(w_2 - 2)/2} = \frac{H_1 + H_2 + 1}{(w_3 - w_1)/2}$$

So we get two more constraints from these relationships, as

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

$$h_4 = \frac{H_1}{w - w_1} - \frac{H_1 + H_2 + 1}{w_3 - w_1} = 0$$

All the design variables must also be nonnegative:
$$-w \le 0; \quad -w_1 \le 0; \quad -w_2 \le 0; \quad -w_3 \le 0; \quad -H_1 \le 0; \quad -H_2 \le 0$$

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:

$$s = \tan \theta$$

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

$$w_3 = w_1 + \frac{2(H_1 + H_2 + 1)}{s}$$

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

Step 4: Optimization Criterion
Optimization criterion is to minimize the volume of excavation, and the cost function is defined as:

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there exists an analogy between music and optimization each musical instrument corresponds to each decision variable musical note corresponds to variable value and harmony corresponds to solution vector Just like musicians in Jazz improvisation play notes randomly or based on experiences in order to find fantastic harmony variables in the harmony search algorithm have random values or previously memorized good values in order to find optimal solution **Progress In Astronautics and Aeronautics** Manohar P. Kamat,1993 **Applied Optimal Design** Edward J. Haug,Jasbir S. Arora,1979 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine *Optimization of Finite Dimensional Structures* Makoto Ohsaki,2016-04-19 Originally developed for mechanical and aeronautical engineering structural optimization is not so easily applied to civil and architectural engineering as structures in these fields are not mass products but more often unique structures planned in accordance with specific design requirements The shape and geometry of such structures are determ **Computer Aided Optimum Design of Structures V** Santiago Hernández,S. Hernández,C. A. Brebbia,1997 Containing the proceedings of the 5th International Conference on Computer Aided Optimum Design of Structures this volume looks at recent advances in structural optimization and demonstrates how optimization can best be applied to engineering practice *Artificial Intelligence in Optimal Design and Manufacturing* Zuomin Dong,1994 Focuses on the application of AI to typical design planning and manufacturing problems with an emphasis on its combination with numerical optimization and geometric modelling in Computer Aided Design Mechanical Engineering and Intelligent Systems J.W. Hu,J. Su,2012-08-30 Selected peer reviewed papers from the 2012 International Conference on Mechanical Engineering and Intelligent Systems ICMEIS 2012 August 25 26 2012 Beijing China AIAA Journal American Institute of Aeronautics and Astronautics,2005 ASM Handbook S. L. Semiatin,ASM International. Handbook Committee,1990 These volumes cover the properties processing and applications of metals and nonmetallic engineering materials They are designed to provide the authoritative information and data necessary for the appropriate selection of materials to meet critical design and performance criteria **Advances in Design Automation, 1990: Optimal design and mechanical systems analysis** Bahram Ravani,1990 Proceedings of the First World Congress of Structural and Multidisciplinary Optimization Niels Olhoff,G. I. N. Rozvany,1995 Hardbound The First World Congress of Structural and Multidisciplinary Optimization WCSMO 1 was held in Goslar Lower Saxony Germany from 28 May to 2 June 1995 Its aim was to bring together at a single international meeting researchers and practitoners in the field of structural optimization This aim was met and these proceedings contain contributed papers presented at WCSMO 1 demonstrating the strong activity recent advances and increasing importance of the field of optimum design The book facilitates overview and easy access to these papers by categorizing them under 26 topics of modern optimization and by providing author and keyword indices **Optimal Design and Performance of Longitudinally Spliced Precast-prestressed Concrete Bridges** Pimpida Surakomol,2005 **Journal of Aircraft** ,2009 **36th Aerospace**

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