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Certain mining operations require an open top rectangular container to transport materials. The data for the problem are as follows:

Construction costs:

- Sides: \$50/m²
- Ends: \$60/m²
- Bottom: \$90/m²

Minimum volume needed: 150 m³

Formulate the problem of determining the container dimensions for minimum present cost.

Solution

Given: The construction costs for the sides, ends, and the bottom of the container and the minimum volume requirement.

Required: It is desired to find the dimensions of the material container which minimize cost.

Procedure: We follow the five step process to formulate the problem as an optimization problem.

Step 1: Problem Statement

Shown above

Step 2: Data and Information Collection

Shown above

Step 3: Definition of Design Variables

dimensions of the container;

b = width, m

d = depth, m

h = height, m

Step 4: Optimization Criterion

Optimization criterion is to minimize total present cost, and the cost function is defined as

$$\text{Cost} = [2dh(50) + 2bh(60) + bd(90)]$$

$$\text{Cost} = (100dh + 120bh + 90bd)$$

Step 5: Formulation of Constraints

Volume Constraint:

$$bdh \geq 150, \text{ m}^3$$

Explicit Design Variable Constraints:

$$b \geq 0, \text{ m}; \quad d \geq 0, \text{ m}; \quad h \geq 0, \text{ m}$$

Introduction To Design Optimum Solutions

E Durkheim



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organizer about the text. Graphic Organizers for Active Reading - ThinkCentral Looking For Graphic Organizers for Active Reading - ThinkCentral? Read Graphic Organizers for Active Reading - ThinkCentral from here. "Rikki-tikki-tavi" by R Kipling · 2007 · Cited by 40 — Answer the following questions about the excerpt from "Rikki-tikki-tavi." animal similarity. Name. Date ... Rikki-Tikki-Tavi | Character Descriptions Worksheet In this activity, students read about two characters in the story and answer questions. Click to view! Rikki-tikki-tavi RUDYARD KIPLING Rikki-tikki-tavi RUDYARD KIPLING. Read each of the following questions. Answer each question in a complete sentence. 1. What kind of animal is Rikki-tikki-tavi? Analyzing Character Confrontations in "Rikki-Tikki-Tavi" Students will analyze the confrontations that drive the story's plot, noting what happens and who is involved, how Rikki's character is developed through each ... Unit 1 Part 2/Week 8 Title: Rikki-tikki-tavi Suggested Time Students complete an evidence chart as a pre-writing activity. Teachers should ... Answer: Tasks and answers available in the anthology on page 137. • After ... Service Manual for Ford 550 555 Tractor Loader Backhoe ... Amazon.com: Service Manual for Ford 550 555 Tractor Loader Backhoe Repair Technical Shop Book : Patio, Lawn & Garden. Service Manual For Ford 455D 555D 575D 655D 675D ... Service / Repair / Overhaul Manual. Ford / New Holland Tractor Loader Backhoes. Complete Manual, Covers all Components. This comprehensive manual includes. See ... Ford 555 d backhoe loader service repair manual | PDF Aug 22, 2020 — Ford 555 d backhoe loader service repair manual - Download as a PDF or view online for free. ford 555D service manual Search 555D ; service manual ; sold in NA (North America). Buy by the section, hard copy, .pdf download, DVD, whatever. Factory repair manuals can't be beat. ford 455d 555d 575d 655d 675d tractor loader backhoe ... Ford Tractor Loader Backhoes Models: 455D 555D 575D 655D 675D Tractor Service / Repair / Overhaul Manual Complete Manual, Covers all Components This ... Ford 455D, 555D, 575D, 655D, 675D Backhoe Latest edition. This repair manual provides information for the proper service and overhaul of Ford 455D, 555D, 575D, 655D and 675D tractor loader/backhoe ... Ford 555D Tractor Loader Backhoe Service Manual (3 & 4 ... This is the best manual for repairing your Tractor Loader Backhoe. The Service Manual saves you time, money, frustration, and bloody knuckles. Get the job done ... FORD 455D 555D 575D 655D 675D BACKHOES Service ... FORD 455D 555D 575D 655D 675D BACKHOES Service Repair manual pdf Download. sameDAYmanuals. 4 out of 5 stars. You can only make an offer when buying a single ... Ford 555 Tractor Loader Backhoe Service Manual It contains 672 pages of critical technical information and instruction for your Tractor Loader Backhoe. Written in the language of a mechanic, it was ... Ford 455D, 555D, 575D, 655D, 675D Backhoe Loader ... This Service Manual for the Ford 455D, 555D, 575D, 655D, 675D Backhoe Loader provides general directions for accomplishing service and repair work with tested, ...