

CH402 CHEMICAL ENGINEERING PROCESS DESIGN

Lesson 16: Plant Cost Scaling and Breakeven

Read: Pages 258-278

Problems: 6-8, 6-9, 6-10 (Problem Set 8)

Objectives (Cadets will be able to):

1. Estimate capital costs using scaling factors.
2. Estimate capital costs based on turnover ratio.
3. Determine breakeven point given production data.

Definitions:

Grass-roots plant, battery limits, detailed item estimate, unit cost method, method of power factors, plant capacity ratio, cost per unit capacity, turnover ratio, breakeven point, Return on investment (ROI).

Cadet Notes: