

CH402 CHEMICAL ENGINEERING PROCESS DESIGN

Lab 5: Process Economics in CHEMCAD

Read: Project Handout

Problems: None

Objectives (Cadets will be able to):

1. Use sizing and heuristics to determine the purchase cost of a variety of equipment.
2. Perform an economic analysis of a process and use key indicators to assess the viability of a process.

Definitions (from lesson 19):

Return on investment (ROI)

Payback period (PBP)

Net present worth (NPW)

Discounted cash flow rate of return (DCFR) – also known as Internal Rate of Return (IRR).

Cadet Notes: