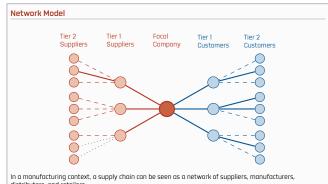
SCMx1

TITLE 1

What is a Supply Chain?



What is Supply Chain Management?

SCM Activities

Product-Process Matrix/Cube

Customer Order Decoupling Point

Flows

Materials Flow

Subsubtitle 2

Inventory: Concepts & Methods

Inventory

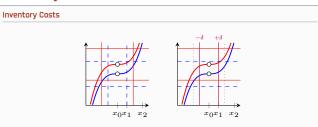
Accouting PoV vs. Logistics/SCM PoV

Why hold inventory?

- Cover process time

Inventory decisions

Inventory Costs



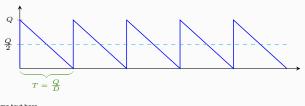
Inventory: Deterministic Models

EOQ

Total Relevant Cost ${TRC}^*(Q)$

EOQ plot

 ${\cal Q}$ units of inventory each ${\cal T}$ units of time.



Some text here

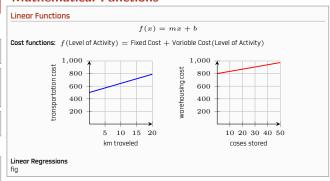
EOQ formula derivation

EOQ formula:

$$Q^* = \sqrt{\frac{ABC}{D}}$$

Appendix 1

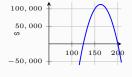
Mathematical Functions



Quadratic Functions

$$f(x) = ax^2 + bx + c$$

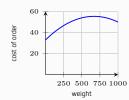
ofit:



$$\begin{split} V(p) &= 20,000 - 80p \\ R(p) &= (20,000 - 80p)p \\ C(p) &= 500,000 + 75(20,000 - 80p) \\ P(p) &= R(p) - C(p) \end{split}$$

price

Parcel trucking



$$f(w) = 33 + 0.067w - 0.00005w^2$$

