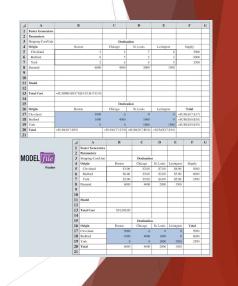


Some Useful Excel Functions for Modeling

Figure 10.16: What-If Model for Foster Generators

► Each element of one array is multiplied by corresponding element of the other array

B5*B17+C5*C17 + D5*D17 + E5*E17 +B6*B18 +...+ E7*E9



Some Useful Excel Functions for Modeling

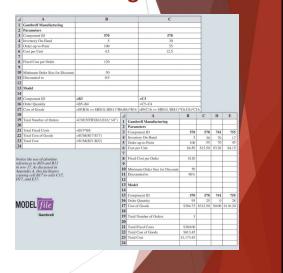
- Additional Functions:
- ▶ =IF(condition, result if condition is true, result if condition is false).
 - ► =IF(B16>=\$B\$10, \$B\$11*B6, B6)*B16
- =COUNTIF(range, condition).
 - ▶ Counts the number of components having a positive order quantity.
 - ► =COUNTIF(B16:E16, ">0")

Some Useful Excel Functions for Modeling

Figure 10.17: Gambrell Manufacturing Component Ordering Model

▶ Illustration:

- ▶ Gambrell Manufacturing produces car stereos.
- Gambrell likes to keep its components inventory to a minimum.
 - Hence, it uses an inventory policy known as an order-up-to policy.
 - Whenever the inventory on hand drops below a certain level, enough units are ordered to return the inventory to that predetermined level.



Some Useful Excel Functions for Modeling

▶ VLOOKUP

- ▶ This function allows the user to pull a subset of data from a larger table of data based on some criterion.
- ► General form =VLOOKUP(value, table, index, range) where,
 - ▶ value = the value to search for in the FIRST column of the table.
 - ▶ table = the cell range containing the table.
 - ▶ index = the column in the table containing the value to be returned.
 - ▶ range = TRUE if looking for the first approximate match of value
 - ▶ FALSE if looking for an exact match of value.

