

# Concise Managerial Statistics

## Chapter 14 –

# Multiple Linear Regression

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# ***Multiple Regression Model***

$$Y = \beta_0 + \beta_1 X_1 + \beta_2 X_2 + \beta_k X_k + e$$

***Deterministic component***

$$\beta_0 + \beta_1 X_1 + \beta_2 X_2 + \beta_k X_k$$

***Least Squares Estimate***

$$SSE = \sum (Y - \hat{Y})^2$$



# Multiple Regression Model

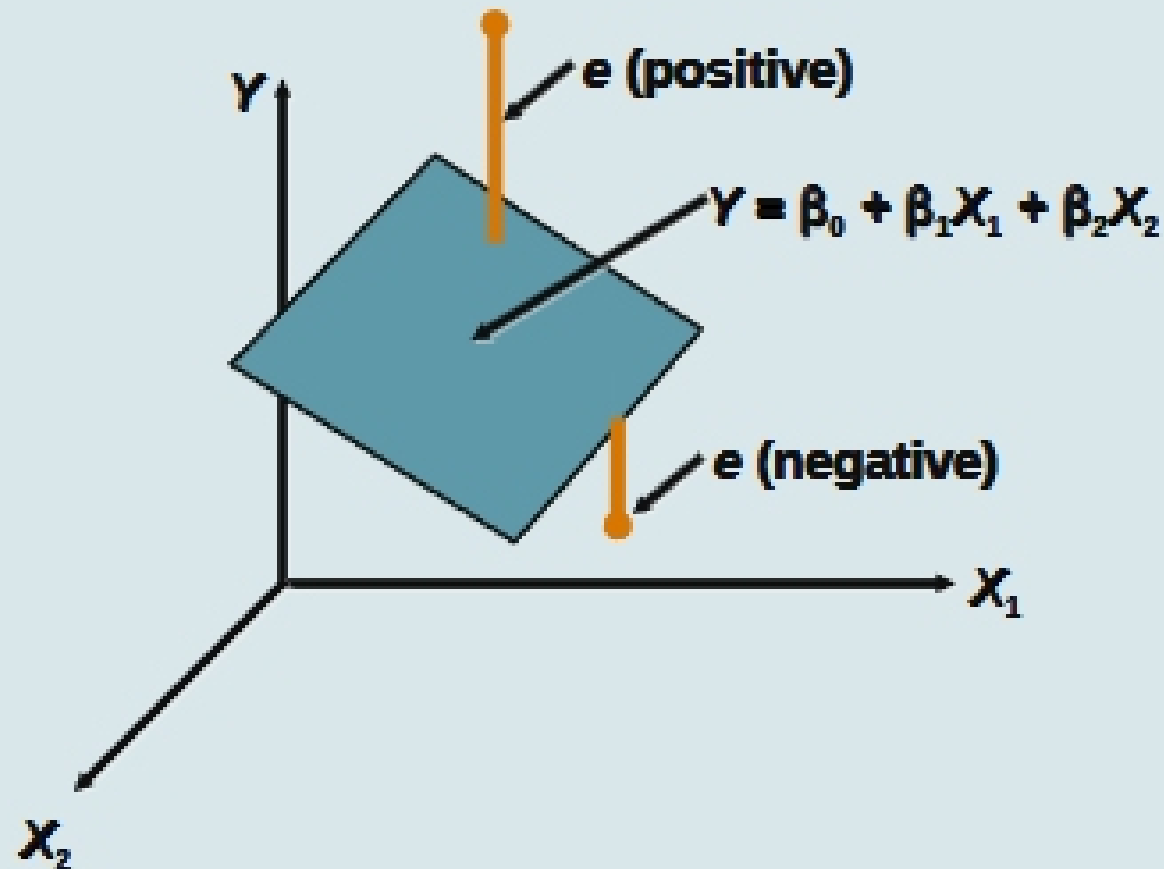


Figure 14.1