

1.4 Minimizing the SSR

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$$\frac{dSSR}{d\beta_0} = \left(\sum (y_i - \sum_j \beta_j x_{ij}) \right) (-1) = 0$$

$$\sum_i y_i = \sum_i \sum_j \beta_j x_{ij}$$

$$\frac{\sum_i y_i}{n} = \sum \bar{y}_{i/n}$$

$$\bar{y}_{i/n} = \bar{y}$$

$$\sum y_i x_{i1} = \sum \bar{y}_i x_{i1}$$