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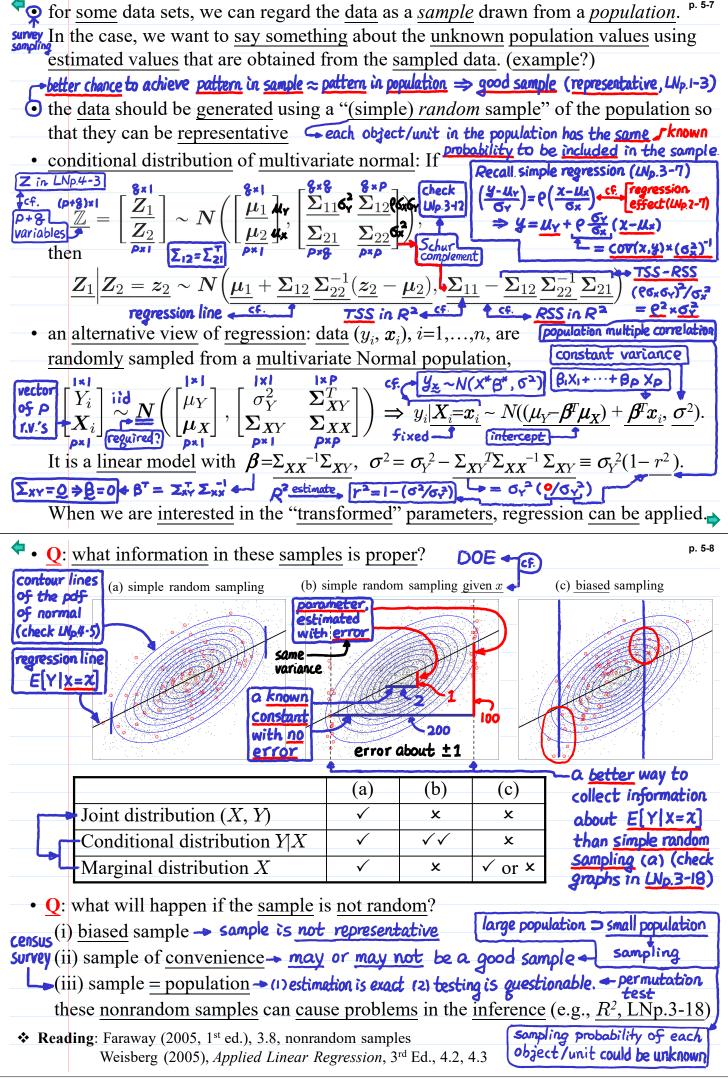
$$Z = \begin{pmatrix} \beta_{i} \\ \beta_{j} \end{pmatrix} \sim N\left(\begin{pmatrix} \beta_{j} \\ \beta_{j} \end{pmatrix}, \sigma^{2} \begin{pmatrix} (X^{T}X)_{j}^{-1} \\ (X^{T}X)_{j}^{-1} \\ (X^{T}X)_{j}^{-1} \end{pmatrix} \right) = N\left(\mu,\sigma^{2}\Sigma\right) = \Sigma - A(X^{T}X)^{-1} X^{T}$$

confidence region of β_{i} and $\beta_{j} \{ \mu \mid (Z - \mu)^{T}\Sigma^{-1}(Z - \mu) \leq c_{1}$ for some c_{j} f

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