

The title

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## Abstract

12 Enter abstract here. Each new line herein must be indented, like this line.

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The title

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$$\begin{bmatrix} \eta_1 \\ \eta_2 \\ \vdots \\ \eta_m \\ x_1 \\ x_2 \\ \vdots \\ x_p \\ y_1 \\ y_2 \\ \vdots \\ y_q \end{bmatrix} = \begin{bmatrix} \beta_{11} & \beta_{12} & \dots & \beta_{1m} & 0_{11} & 0_{12} & \dots & 0_{1p} & 0_{11} & 0_{12} & \dots & 0_{1q} \\ \beta_{21} & \beta_{22} & \dots & \beta_{2m} & 0_{21} & 0_{22} & \dots & 0_{2p} & 0_{21} & 0_{22} & \dots & 0_{2q} \\ \vdots & \vdots & \ddots & \vdots & \vdots & \vdots & \ddots & \vdots & \vdots & \vdots & \ddots & \vdots \\ \beta_{m1} & \beta_{m2} & \dots & \beta_{mm} & 0_{m1} & 0_{m2} & \dots & 0_{mp} & 0_{m1} & 0_{m2} & \dots & 0_{mq} \\ 0_{11} & 0_{12} & \dots & 0_{1m} & 0_{11} & 0_{12} & \dots & 0_{1p} & 0_{11} & 0_{12} & \dots & 0_{1q} \\ 0_{21} & 0_{22} & \dots & 0_{2m} & 0_{21} & 0_{22} & \dots & 0_{2p} & 0_{21} & 0_{22} & \dots & 0_{2q} \\ \vdots & \vdots & \ddots & \vdots & \vdots & \vdots & \ddots & \vdots & \vdots & \vdots & \ddots & \vdots \\ 0_{p1} & 0_{p2} & \dots & 0_{pm} & 0_{p1} & 0_{p2} & \dots & 0_{pp} & 0_{11} & 0_{12} & \dots & 0_{pq} \\ \lambda_{y11} & \lambda_{y12} & \dots & \lambda_{y1m} & 0_{11} & 0_{12} & \dots & 0_{1p} & 0_{11} & 0_{12} & \dots & 0_{1q} \\ \lambda_{y21} & \lambda_{y22} & \dots & \lambda_{y2m} & 0_{21} & 0_{22} & \dots & 0_{2p} & 0_{21} & 0_{22} & \dots & 0_{2q} \\ \vdots & \vdots & \ddots & \vdots & \vdots & \vdots & \ddots & \vdots & \vdots & \vdots & \ddots & \vdots \\ \lambda_{yq1} & \lambda_{yq2} & \dots & \lambda_{yqm} & 0_{q1} & 0_{q2} & \dots & 0_{qp} & 0_{q1} & 0_{q2} & \dots & 0_{qq} \end{bmatrix} \begin{bmatrix} \eta_1 \\ \eta_2 \\ \vdots \\ \eta_m \\ x_1 \\ x_2 \\ \vdots \\ x_p \\ y_1 \\ y_2 \\ \vdots \\ y_q \end{bmatrix} +$$

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$$\begin{bmatrix} \gamma_{11} & \gamma_{12} & \dots & \gamma_{1n} & 1 & 0_{12} & \dots & 0_{1m} & 0_{11} & 0_{12} & \dots & 0_{1p} & 0_{11} & 0_{12} & \dots & 0_{1q} \\ \gamma_{21} & \gamma_{22} & \dots & \gamma_{2n} & 0_{21} & 1 & \dots & 0_{2m} & 0_{21} & 0_{22} & \dots & 0_{2p} & 0_{21} & 0_{22} & \dots & 0_{2q} \\ \vdots & \vdots & \ddots & \vdots & \vdots & \vdots & \ddots & \vdots & \vdots & \vdots & \ddots & \vdots & \vdots & \vdots & \ddots & \vdots \\ \gamma_{m1} & \gamma_{m2} & \dots & \gamma_{mn} & 0_{m1} & 0_{m2} & \dots & 1 & 0_{m1} & 0_{m2} & \dots & 0_{mq} & 0_{m1} & 0_{m2} & \dots & 0_{mq} \\ \lambda_{x11} & \lambda_{x12} & \dots & \lambda_{x1n} & 0_{11} & 0_{12} & \dots & 0_{1m} & 1 & 0_{22} & \dots & 0_{1p} & 0_{11} & 0_{12} & \dots & 0_{1q} \\ \lambda_{x21} & \lambda_{x22} & \dots & \lambda_{x2n} & 0_{21} & 0_{22} & \dots & 0_{2m} & 0_{21} & 1 & \dots & 0_{2p} & 0_{21} & 0_{22} & \dots & 0_{2q} \\ \vdots & \vdots & \ddots & \vdots & \vdots & \vdots & \ddots & \vdots & \vdots & \vdots & \ddots & \vdots & \vdots & \vdots & \ddots & \vdots \\ \lambda_{xp1} & \lambda_{xp2} & \dots & \lambda_{xpn} & 0_{p1} & 0_{p2} & \dots & 0_{pm} & 0_{p1} & 0_{p2} & \dots & 1 & 0_{p1} & 0_{p2} & \dots & 0_{pq} \\ 0_{11} & 0_{12} & \dots & 0_{1n} & 0_{11} & 0_{12} & \dots & 0_{1m} & 0_{11} & 0_{12} & \dots & 0_{1p} & 1 & 0_{22} & \dots & 0_{1q} \\ 0_{21} & 0_{22} & \dots & 0_{2n} & 0_{21} & 0_{22} & \dots & 0_{2m} & 0_{21} & 0_{22} & \dots & 0_{2p} & 0_{21} & 1 & \dots & 0_{1q} \\ \vdots & \vdots & \ddots & \vdots & \vdots & \vdots & \ddots & \vdots & \vdots & \vdots & \ddots & \vdots & \vdots & \vdots & \ddots & \vdots \\ 0_{q1} & 0_{q2} & \dots & 0_{qn} & 0_{q1} & 0_{q2} & \dots & 0_{qm} & 0_{q1} & 0_{q2} & \dots & 0_{qp} & 0_{q1} & 0_{q2} & \dots & 1 \end{bmatrix}$$

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$$\begin{bmatrix} \xi_1 \\ \xi_2 \\ \vdots \\ \xi_n \\ \zeta_1 \\ \zeta_2 \\ \vdots \\ \zeta_m \\ \delta_1 \\ \delta_2 \\ \vdots \\ \delta_p \\ \epsilon_1 \\ \epsilon_2 \\ \vdots \\ \epsilon_q \end{bmatrix}$$

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$$\begin{bmatrix} \eta_{m \times 1} \\ X_{p \times 1} \\ Y_{q \times 1} \end{bmatrix} = \left[ \begin{array}{c|c|c} B_{m \times m} & 0_{m \times p} & 0_{m \times q} \\ \hline 0_{p \times m} & 0_{p \times p} & 0_{p \times q} \\ \hline \Lambda_{y_q \times m} & 0_{q \times p} & 0_{q \times q} \end{array} \right] \begin{bmatrix} \eta_{m \times 1} \\ X_{p \times 1} \\ Y_{q \times 1} \end{bmatrix} + \left[ \begin{array}{c|c|c|c} \Gamma_{m \times n} & I_{m \times m} & 0_{m \times p} & 0_{m \times q} \\ \hline \Lambda_{x_p \times n} & 0_{p \times m} & I_{p \times p} & 0_{p \times q} \\ \hline 0_{q \times n} & 0_{q \times m} & 0_{q \times p} & I_{q \times q} \end{array} \right] \begin{bmatrix} \xi_{n \times 1} \\ \zeta_{m \times 1} \\ \delta_{p \times 1} \\ \epsilon_{q \times 1} \end{bmatrix}$$

References