. . .

 $\overline{\partial x_1 \partial x_n}$

 $\partial x_2 \partial x_n$

 $\in \mathcal{M}_{n,n}(\mathbb{R})$

(A.21)

 $\partial x_1 \partial x_2$

 $\frac{\partial F_1^2}{\partial x_2^2}$

 $\partial x_n \partial x_2$

 $\partial x_2 \partial x_1$

 $\mathbf{P}^{2}F(x) = \mathbf{H}_{x} = \frac{d^{2}F}{dx}(x) = \mathbf{I}$