Matrices

A set of mn numbers (real or complex) averanged in the born of a rectangular averay howing m rows and n column is called an  $m \times n$  matrix  $A = \begin{bmatrix} a_{11} & q_{12} & q_{13} & --- & q_{1} & q_{1} \\ q_{21} & q_{22} & q_{22} & --- & q_{2} & q_{2} \\ q_{21} & q_{22} & q_{22} & --- & q_{2} & q_{2} \\ q_{21} & q_{22} & q_{22} & --- & q_{2} & q_{2} \\ \end{bmatrix}$ 

$$A = \begin{bmatrix} a_{11} & q_{12} & a_{13} & - & - & a_{1n} \\ a_{21} & a_{22} & a_{23} & - & - & a_{2n} \\ \vdots & \vdots & \vdots & \vdots & \vdots & \vdots \\ a_{m_1} & a_{m_2} & a_{33} & - & - & a_{mn} \end{bmatrix}_{m \times n}$$