



Definition

Suppose $A \in \mathbf{R}^{m \times n}$. Given sets $I \subset \{1, \dots, n\}$ and $J \subset \{1, \dots, m\}$, the submatrix of A at indices I and J is the matrix whose elements are the $I \times J$ elements of A in order.

Notation

We denote the submatrix by $A_{I,J}$

