Key Takeaways

Special types of Matrices

- Involutory matrix :

A square matrix A is said to be involutory if $A^2 = I$.

$\Rightarrow A \cdot A = I \Rightarrow A = A^{-1}$

$\Rightarrow A^3 = A^2 \cdot A = I \cdot A$

$\Rightarrow A^3 = A$

Note:

If A is involutory , then $A = A^{-1}$

$A^3 = A$; $A^4 = I$

$A^{2k} = I$; $A^{2k+1} = A$, $k \in$ Integer

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