Key Takeaways

- Cayley – Hamilton Theorem

  Every square matrix A satisfies its characteristic equation $|A - \lambda \mathrm{I}| = 0$.

  If $a_0\lambda^n + a_1\lambda^{n-1} + \cdots + a_{n-1}\lambda + a_n = 0$ is the characteristic equation of A

  $\therefore a_0A^n + a_1A^{n-1} + \cdots + a_{n-1}A + a_nI = O$

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