

Linear Dynamical Systems and Recurrence Relations

A **linear dynamical system** in two variables is given by:

$$\begin{cases} x_{n+1} = ax_n + by_n \\ y_{n+1} = cx_n + dy_n \end{cases}$$

Letting $\vec{v}_n = \begin{bmatrix} x_n \\ y_n \end{bmatrix}$ and $A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$, the system can be expressed in matrix form as:

$$\vec{v}_{n+1} = A\vec{v}_n$$

Notice the pattern as we find each successive **state vector**:

$$\begin{aligned} \vec{v}_1 &= A\vec{v}_0 \\ \vec{v}_2 &= A\vec{v}_1 = A(A\vec{v}_0) = A^2\vec{v}_0 \\ &= \dots = A^{(n-1)}\vec{v}_0 \end{aligned}$$



Analysis Of Linear Dynamic Systems

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B. Bhat**

Analysis Of Linear Dynamic Systems:

Unveiling the Magic of Words: A Overview of "**Analysis Of Linear Dynamic Systems**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Analysis Of Linear Dynamic Systems**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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