

Classification of Dynamical Systems

Two-dimensional linear or linearized systems

Set of equations for 2D system

$$\dot{x}_1 = f_1(x_1, x_2) = ax_1 + bx_2$$

$$\dot{x}_2 = f_2(x_1, x_2) = cx_1 + dx_2$$

Jacobian matrix for 2D system

$$\mathbf{J} = \mathbf{A} = \begin{bmatrix} \frac{\partial f_1}{\partial x_1} & \frac{\partial f_1}{\partial x_2} \\ \frac{\partial f_2}{\partial x_1} & \frac{\partial f_2}{\partial x_2} \end{bmatrix} = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$$

Calculation of **eigenvalues**

$$\det(\mathbf{A} - \lambda \mathbf{E}) = 0 \Rightarrow \det \begin{bmatrix} a - \lambda & b \\ c & d - \lambda \end{bmatrix} = 0$$

$$(a - \lambda)(d - \lambda) - bc = 0 \Rightarrow \lambda^2 - (a + d)\lambda + ad - bc = 0$$

Formulation using **trace** and **determinant**

$$\text{Tr}(\mathbf{A}) = a + d; \quad \text{Det}(\mathbf{A}) = ad - bc$$

$$\lambda^2 - \text{Tr}(\mathbf{A})\lambda + \text{Det}(\mathbf{A}) = 0$$

$$\lambda_{1,2} = \frac{\text{Tr}(\mathbf{A}) \pm \sqrt{\text{Tr}(\mathbf{A})^2 - 4\text{Det}(\mathbf{A})}}{2}$$

Dynamical Systems In 2 Dimensions

Mark Steyvers



Dynamical Systems In 2 Dimensions:

Reviewing **Dynamical Systems In 2 Dimensions**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Dynamical Systems In 2 Dimensions**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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