

# 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**

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

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

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

# Two Dimensional Linear Systems

**Jiyuan Zhang**



## **Two Dimensional Linear Systems:**

## Embracing the Track of Appearance: An Psychological Symphony within **Two Dimensional Linear Systems**

In a world consumed by monitors and the ceaseless chatter of quick communication, the melodic elegance and mental symphony created by the prepared word frequently diminish into the backdrop, eclipsed by the persistent noise and distractions that permeate our lives. But, nestled within the pages of **Two Dimensional Linear Systems** an enchanting literary treasure overflowing with natural thoughts, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, that charming masterpiece conducts visitors on an emotional trip, skillfully unraveling the hidden melodies and profound affect resonating within each cautiously crafted phrase. Within the depths of this emotional assessment, we will discover the book is key harmonies, analyze their enthralling publishing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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