

SEPARATRIX

Meaning: Separatrix: a dividing line or surface in phase space that separates different dynamical behaviors, such as stable and unstable trajectories.

1. The separatrix in the phase space diagram indicates the boundary between stable and unstable trajectories.
2. In dynamical systems, understanding the role of the separatrix is crucial for predicting long-term behavior.
3. The concept of a separatrix can be applied in various fields, including physics and engineering.
4. Researchers studied the effect of perturbations on the separatrix in order to refine their models.
5. Visualizing the separatrix helps clarify the transitions between different equilibria in the system.

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