

Growth Systems: Coherence-Driven Multi-Equilibrium Field Theory

Abstract

Balanced formulation combining mathematics and intuition with hybrid diagrams.

1. Introduction

Equilibrium is dynamic and distributed.

2. Core Equation

$$d^2\Phi/dt^2 + R(\Phi)d\Phi/dt = \nabla \cdot B(\Phi) + A(\Phi - Z_i) + G(\Phi)$$

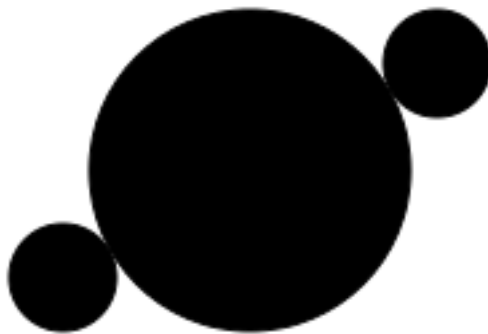
3. Coherence

$$C = 1 / (1 + \text{Var}(\text{velocity}))$$

4. Multi-Zero Field

Multiple equilibria interact and harmonise.

Diagram: Multi-Zero Interaction



5. Dynamics

Oscillation → Coherence → Saturation → Instability → Oscillation

Conclusion

Growth Systems describe coherence-driven emergence.