Numerical Methods for PDEs: An Interactive Journey

Welcome

Welcome to this interactive journey through **Numerical Methods for Partial Differential Equations (PDEs)**.

You will explore the subject through **dialogues between Acharya and Pavni**, discovering history, classification, and numerical methods step by step.

Levels

- Level 1: Origins of PDEs
- Level 2: Classification of PDEs
- Level 3: Physical Interpretation and boundary conditions
- Level 4: Finite Difference Methods- Introduction with application to the Heat Eqaution
- Level 5 : Hyperbolic PDEs
- Level 5.5: Numerics for Hyperbolic PDEs
- Level 6 : Von-Neumann Stability Analysis
- Level 7 : Elliptic PDEs
- Level 8 : Spectral Methods

Stay tuned as new levels unlock — from classification of PDEs to discretization techniques and beyond!