Development Guide

Overview

This guide outlines the software architecture, contributing conventions, and testing procedures.

1. Structure

Core modules: solvers/, utils/, examples/, and tests/. solvers/: PDE integration and steady-state algorithms. utils/: array handling, I/O, and logging helpers.

2. Style and Linting

Code is formatted to PEP8 using Ruff. Run make lint to verify static checks.

3. Testing

Pytest is used for regression testing. Add tests under tests/ for any new solver feature.

4. Contributions

Submit pull requests via GitHub. Each PR must pass all tests and lint checks before merging.