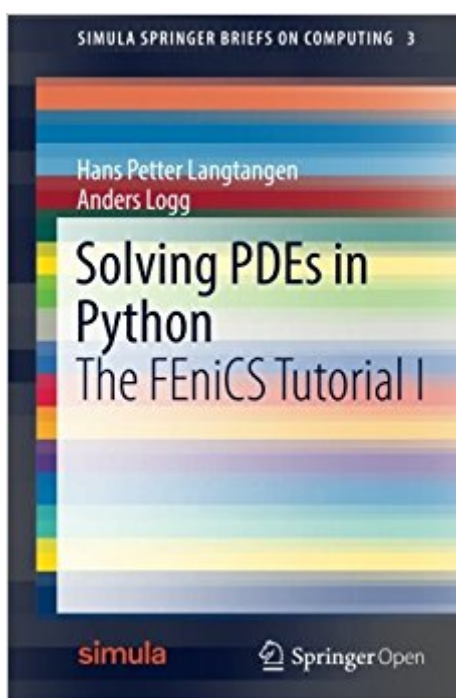The book was found

Solving PDEs In Python: The FEniCS Tutorial I (Simula SpringerBriefs On Computing)

Synopsis

This book offers a concise and gentle introduction to finite element programming in Python based on the popular FEniCS software library. Using a series of examples, including the Poisson equation, the equations of linear elasticity, the incompressible NavierÃ¢â¬âœStokes equations, and systems of nonlinear advectionÃ¢â¬âœdiffusionÃ¢â¬âœreaction equations, it guides readers through the essential steps to quickly solving a PDE in FEniCS, such as how to define a finite variational problem, how to set boundary conditions, how to solve linear and nonlinear systems, and how to visualize solutions and structure finite element Python programs.This book is open access under a CC BY license.

Book Information

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