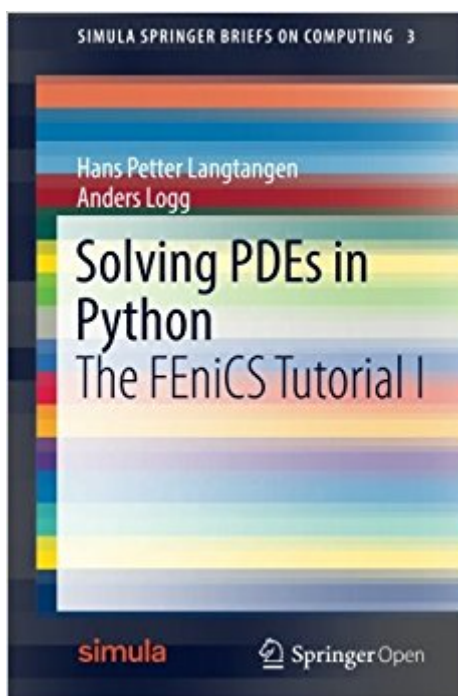The book was found

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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 Navierâ "Stokes equations, and systems of nonlinear advectionâ "diffusionâ "reaction 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

Series: Simula SpringerBriefs on Computing (Book 3)

Paperback: 146 pages

Publisher: Springer; 1st ed. 2016 edition (March 22, 2017)

Language: English

ISBN-10: 3319524615

ISBN-13: 978-3319524610

Product Dimensions: 6.1 x 0.4 x 9.2 inches

Shipping Weight: 12 ounces (View shipping rates and policies)

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