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this book is a tutorial written by researchers and developers behind the fenics project and explores an advanced expressive approach to the development of mathematical software the presentation spans mathematical background software design and the use of fenics in applications theoretical aspects are complemented with computer code which is available as free open source software the book begins with a special introductory tutorial

for beginners following are chapters in part i addressing fundamental aspects of the approach to automating the creation of finite element solvers chapters in part ii address the design and implementation of the fenics software chapters in part iii present the application of fenics to a wide range of applications including fluid flow solid mechanics electromagnetics and geophysics

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 navier stokes equations and systems of nonlinear advection diffusion 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

this book constitutes the proceedings of the 19th international conference on tools and algorithms for the construction and analysis of systems tacas 2013 held in rome italy in march 2013 the 42 papers presented in this volume were carefully reviewed and selected from 172 submissions they are organized in topical sections named markov chains termination sat smt games and synthesis process algebra pushdown runtime verification and model checking concurrency learning and abduction timed automata security and access control frontiers graphics and quantum functional programs and types tool demonstrations explicit state model checking büchi automata and competition on software verification

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surveys the capabilities features use of the tk solver applications software package solves virtually any problem that can be defined as an algebraic equation

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