Design Patterns for e-Science (Texts in Computational Science and Engineering)

By Gabriele Manduchi

Springer. Paperback. Condition: New. 388 pages. Dimensions: 9.2in. x 6.1in. x 0.8in.This is a book about a code and about coding. The code is a case study which has been used to teachcourses in e-Science atthe Australian NationalUniv- sity since 2001. Students learn advanced programming skills and techniques TM in the Java language. Above all, they learn to apply useful object-oriented design patterns as they progressively refactor and enhance the software. We think our case study, EScope, is as close to real life as you can get! It is a smaller version of a networked, graphical, waveform browser which is used in the control rooms of fusion energy experiments around the world. It is quintessential e-Science in the sense of e-Science being computer science and information technology in the service of science. It is not, specically, Grid-enabled, but we develop it in a way that will facilitate its deployment onto the Grid. The standard version ofEScope interfaces with a specialised database for waveforms, and related data, known asMDSplus. On the acc- panying CD, we have provided you with software which will enable you to installMDSplus, EScope and sample data les onto Windows or Linux c- puters. There is much additional...

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