Software Design for Engineers and Scientists

John Allen Robinson

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Software Design for Engineers and Scientists integrates three core areas of computing:
. Software engineering - including both traditional methods and the insights of 'extreme programming'
. Program design - including the analysis of data structures and algorithms
. Practical object-oriented programming

Without assuming prior knowledge of any particular programming language, and avoiding the need for students to learn from separate, specialised Computer Science texts, John Robinson takes the reader from small-scale programing to competence in large software projects, all within one volume. Copious examples and case studies are provided in C++ and students can access complementary examples in Java on an accompanying website.

The book is especially suitable for undergraduates in the natural sciences and all branches of engineering who have some knowledge of computing basics, and now need to understand and apply software design to tasks like data analysis, simulation, signal processing or visualisation. John Robinson introduces both software theory and its application to problem solving using a range of design principles, applied to the creation of medium-sized systems, providing key methods and tools for designing reliable, efficient, maintainable programs. The case studies are presented within scientific contexts to illustrate all aspects of the design process, allowing students to relate theory to real-world applications. All listings are available on this book's companion website.

· Core computing topics - usually found in separate specialised texts - presented to meet
the specific requirements of science and engineering students
· Demonstrates good practice through applications, case studies and worked examples
based in real-world contexts
· Additional website resources are available, including useful links and further worked examples using Java

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