



Covers image processing, web plugins, particle simulations, video editing, performance optimization, and more. Shows how OpenCL maps to an example target architecture and explains some of the tradeoffs associated with mapping to various architectures Addresses a range of fundamental programming techniques, with multiple examples and case studies that demonstrate OpenCL extensions for a variety of hardware platforms

This title gives students an integrated and rigorous picture of applied computer science, as it comes to play in the construction of a simple yet powerful computer system.

Heterogeneous Computing with OpenCL

The Elements of Computing Systems

The Theory and Practice of Software Design with BlackBox Component Builder

MYPROGRAMMINGLAB WITH PEARSON ETEXT - INSTANTACCESS - FOR THE PRACTICE OF COMPUTING USING... PYTHON, GLOBAL EDITION.

The Practice of Reproducible Research

The Practice of Computing Using PythonPearson

For courses in Python Programming Introduces Python programming with an emphasis on problem-solving Now in its Third Edition, Practice of Computing Using Python continues to effectively introduce readers to computational thinking using Python, with a strong emphasis on problem solving through computer science. The authors have chosen Python for its simplicity, powerful built-in data structures, advanced control constructs, and practicality. The text is built from the ground up for Python programming, rather than having been translated from Java or C++. Focusing on data manipulation and analysis as a theme, the text allows readers to work on real problems using Internet-sourced or self-generated data sets that represent their own work and interests. The authors also emphasize program development and provide readers of all backgrounds with a practical foundation in programming that suit their needs. Among other changes, the Third Edition incorporates a switch to the Anaconda distribution, the SPYDER IDE, and a focus on debugging and GUIs. Also available with MyProgrammingLab(tm) MyProgrammingLab is an online learning system designed to engage students and improve results. MyProgrammingLab consists of a set of programming exercises correlated to specific Pearson CS1/Intro to Programming textbooks. Through practice exercises and immediate, personalized feedback, MyProgrammingLab improves the programming competence of beginning students who often struggle with the basic concepts of programming languages.

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The prefix operation on a set of data is one of the simplest and most useful building blocks in parallel algorithms. This book cogently illustrates how the approach leads to fast and efficient solutions to many different kinds of problems.

Case Studies and Lessons from the Data-Intensive Sciences

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