



Industrial Applications of High-Performance Computing: Best Global Practices (Chapman & Hall/CRC Computational Science)

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Industrial Applications of High-Performance Computing: Best Global Practices offers a global overview of high-performance computing (HPC) for industrial applications, along with a discussion of software challenges, business models, access models (e.g., cloud computing), public-private partnerships, simulation and modeling, visualization, big data analysis, and governmental and industrial influence.

Featuring the contributions of leading experts from 11 different countries, this authoritative book:

- Provides a brief history of the development of the supercomputer
- Describes the supercomputing environments of various government entities in terms of policy and service models
- Includes a case study section that addresses more subtle and technical aspects of industrial supercomputing
- Shows how access to supercomputing matters, and how supercomputing can be used to solve large-scale and complex science and engineering problems
- Emphasizes the need for collaboration between companies, political organizations, government agencies, and entire nations

Industrial Applications of High-Performance Computing: Best Global Practices supplies computer engineers and researchers with a state-of-the-art supercomputing reference. This book also keeps policymakers and industrial decision-makers informed about the economic impact of these powerful technological investments.

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Editorial Review

Review

"This book gives a comprehensive and up-to-date overview of the rapidly expanding field of the industrial use of supercomputers. It is just a pleasure reading through informative country reports and in-depth case studies contributed by leading researchers in the field."

?Jysoo Lee, Principal Researcher, Korea Institute of Science and Technology Information

"From telescopes to microscopes, from vacuums to hyperbaric chambers, from sonar waves to laser beams, scientists have perpetually strived to apply technology and invention to new frontiers of scientific advancement. Along the way, they have used abacuses, slide rules, calculators, computers, and?today?supercomputers, to crunch the increasingly complicated calculations used to understand and predict natural phenomena. In the course of practicality, science begets engineering, and engineering begets innovation. Science, and therefore supercomputing, finds its way into industry around the world, affecting our lives in ways that are simple (cleaner clothes, faster speedboats, and more spin on a seven-iron) and profound (fewer drug interactions, safer cars, and new energy sources). Altogether, industry consumes more than half of all high performance computing usage worldwide. This book tells that story."

?Addison Snell, CEO, Intersect360 Research

"Two words: finally and brilliant! As HPC becomes ever important as a means to leverage all that we are revealing/learning, this book will put into context how we got there and where we might end up ... a timeless, global perspective."

?Tom Tabor, CEO, Tabor Communications, Inc., Publishers of *HPCwire*, *Enterprise Tech*, and *Datanami*

"Political and industrial leaders should heed the insights offered by Osseyran and Giles. At the Council on Competitiveness, we assert that to out-compete is to out-compute. This book makes that assertion breathtakingly clear, whether you're a nation or a company. The authors share how industries apply supercomputing to innovate and serve customers better?and how global that competition has become. Leadership in supercomputing equates to leadership in science, national security, and the marketplace."

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Sandra Bland:

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