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Computer Science : Database Management

Chekanov, Sergei V.

Scientific Data Analysis using Jython Scripting and Java

- **The only book which describes Java scripting for science and engineering. Lays the foundation for data analysis using Java and Python using a truly multi-threaded and multiplatform approach. Contains examples, about 250 in total, all are very short (10-20 lines of the code). Contains real-life examples derived from the author's experience as a data analyser for the last 20 years of work in physics.**

Scientific Data Analysis using Jython Scripting and Java presents practical approaches for data analysis using Java scripting based on Jython, a Java implementation of the Python language. The chapters essentially cover all aspects of data analysis, from arrays and histograms to clustering analysis, curve fitting, metadata and neural networks. A comprehensive coverage of data visualisation tools implemented in Java is also included. Written by the primary developer of the jHepWork data-analysis framework, the book provides a reliable and complete reference source laying the foundation for data-analysis applications using Java scripting. More than 250 code snippets (of around 10-20 lines each) written in Jython and Java, plus several real-life examples help the reader develop a genuine feeling for data analysis techniques and their programming implementation. This is the first data-analysis and data-mining book which is completely based on the Jython language, and opens doors to scripting using a fully multi-platform and multi-threaded approach. Graduate students and researchers will benefit from the information presented in this book.

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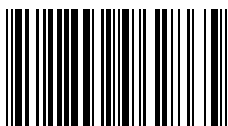
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