XML in Scientific Computing (Chapman & Hall/CRC Numerical Analysis and Scientific Computing Series)



While the extensible markup language (XML) has received a great deal of attention in web programming and software engineering, far less attention has been paid to XML in mainstream computational science and engineering. Correcting this imbalance, XML in Scientific Computing introduces XML to scientists and engineers in a way that illustrates the similarities and differences with traditional programming languages and suggests new ways of saving and results sharing the of scientific calculations. The author discusses XML in the context of scientific computing, demonstrates how the extensible stylesheet language (XSL) can be used to perform various calculations, and explains how to create and navigate through XML documents using traditional languages such as Fortran, C++, and MATLAB. A suite of computer programs are available on the authors website.

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