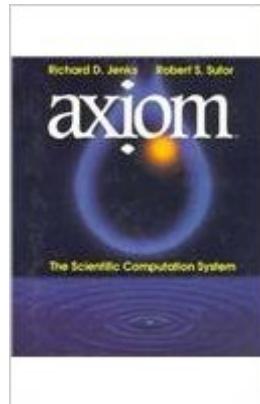


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Axiom(TM): The Scientific Computation System



Synopsis

Recent advances in hardware performance and software technology have made possible a wholly different approach to computational mathematics. Symbolic computation systems have revolutionized the field, building upon established and recent mathematical theory to open new possibilities in virtually every industry. Formerly dubbed Scratchpad, AXIOM is a powerful new symbolic and numerical system developed at the IBM Thomas J. Watson Research Center. AXIOM's scope, structure, and organization make it outstanding among computer algebra systems. AXIOM: The Scientific Computation System is a companion to the AXIOM system. The text is written in a straightforward style and begins with a spirited foreword by David and Gregory Chudnovsky. The book gives the reader a technical introduction to AXIOM, interacts with the system's tutorial, accesses algorithms newly developed by the symbolic computation community, and presents advanced programming and problem solving techniques. Eighty illustrations and eight pages of color inserts accompany text detailing methods used in the 2D and 3D interactive graphics system, and over 2500 example input lines help the reader solve formerly intractable problems.

Book Information

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Customer Reviews

I have this book as a PDF and I still bought the text, because readers might be fine for fiction, but they just don't work very well as a substitute for text books. Axiom, of course, is the publicly available CAS which was architected to be the best CAS in the world, with no compromises allowed in its structural design. In the world of CAS, it seems that higher-order functional languages allow better

design than even object-oriented systems like Mathematica. In this respect, Axiom's internal structure is superior to anything else. Axiom no longer has the kind of sponsorship available to commercial products, but it stands as the ideally designed CAS which still has the potential to change the way we think about all CASs. This book is the best way to learn about it.

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