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By -

Springer. Paperback. Book Condition: New. Paperback. 504 pages. Dimensions: 9.2in. x 6.1in. x 1.2in.CASC 2005 continued a tradition started in 1998 of international c- ferences on the latest advances in the application of computer algebra systems (CASs) and methods to the solution of various problems in scientic computing. The methods of scientic computing play an important role in research and engineering applications in the natural and the engineering sciences. The sign- icance and impact of computer algebra methods and computer algebra systems for scientic computing has increased considerably in recent times. Nowadays, suchgeneral-purposecomputeralgebrasystemsasMaple, Magma, Mathematica, MuPAD, Singular, CoCoA and others enable their users to solve the following three important tasks within a uniform framework: (a) symbolic manipulation; (b) numerical computation; (c) visualization. The ongoing development of such systems, including their integrationand ad- tation to modern software environments, puts them at the forefront in scientic computing and enables the practicalsolution of many complex applied problems in the domains of natural sciences and engineering. Greece oers excellent infrastructures for hosting international conferences, and this was a reason for us to choose the city of Kalamata, Greece, as the lo- tion for CASC 2005, the eighth conference in the sequenceof CASC conferences. The...

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