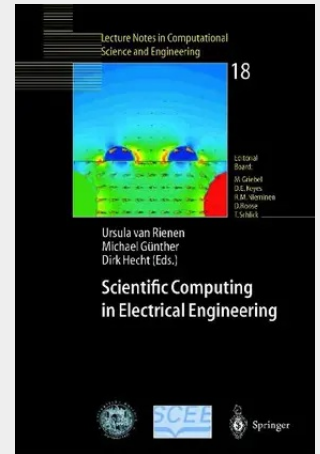


Scientific Computing in Electrical Engineering

Proceedings of the 3rd International Workshop, August 20-23, 2000, Warnemünde, Germany

This book presents a collection of selected contributions presented at the 3rd International Workshop on Scientific Computing in Electrical Engineering, SCEE-2000, which took place in Warnemünde, Germany, from August 20 to 23, 2000. Nearly hundred scientists and engineers from thirteen countries gathered in Warnemünde to participate in the conference. Rostock University, the oldest university in Northern Europe founded in 1419, hosted the conference. This workshop followed two earlier workshops held 1997 at the Darmstadt University of Technology and 1998 at Weierstrass Institute for Applied Analysis and Stochastics in Berlin under the auspices of the German Mathematical Society. These workshops aimed at bringing together two scientific communities: applied mathematicians and electrical engineers who do research in the field of scientific computing in electrical engineering. This, of course, is a wide field, which is why it was decided to concentrate on selected major topics. The workshop in Darmstadt, which was organized by Michael Günther from the Mathematics Department and Ursula van Rienen from the Department of Electrical Engineering and Information Technology, brought together more than hundred scientists interested in numerical methods for the simulation of circuits and electromagnetic fields. This was a great success. Voices coming from the participants suggested that it was time to bring these communities together in order to get to know each other, to discuss mutual interests and to start cooperative work. A collection of selected contributions appeared in 'Surveys on Mathematics for Industry', Vol.8, No. 3-4 and Vol.9, No.2, 1999.

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