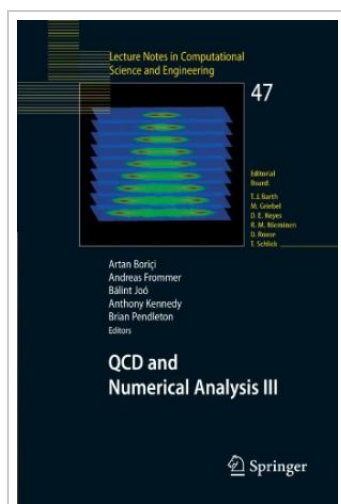




QCD and Numerical Analysis III

By Borici Artan

Springer-Verlag GmbH Jul 2005, 2005. Taschenbuch. Book Condition: Neu. 239x156x14 mm. Neuware - The Third International Workshop on Numerical Analysis and Lattice QCD took place at the University of Edinburgh from June 30th to July 4th, 2003. It continued a sequence which started in 1995 at the University of Kentucky and continued in 1999 with a workshop at the University of Wuppertal. The aim of these workshops is to bring together applied mathematicians and theoretical physicists to stimulate the exchange of ideas between leading experts in the fields of lattice QCD and numerical analysis. Indeed, the last ten years have seen quite a substantial increase in cooperation between the two scientific communities, and particularly so between numerical linear algebra and lattice QCD. The workshop was organised jointly by the University of Edinburgh and the UK National e-Science Centre. It promoted scientific progress in lattice QCD as an e-Science activity that encourages close collaboration between the core sciences of physics, mathematics, and computer science. In order to achieve more realistic computations in lattice quantum field theory substantial progress is required in the exploitation of numerical methods. Recently, there has been much progress in the formulation of lattice chiral symmetry satisfying the Ginsparg-Wilson relation. Methods for implementing such chiral fermions efficiently were the principal subject of this meeting, which, in addition, featured several tutorial talks aiming at introducing the important concepts of...



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