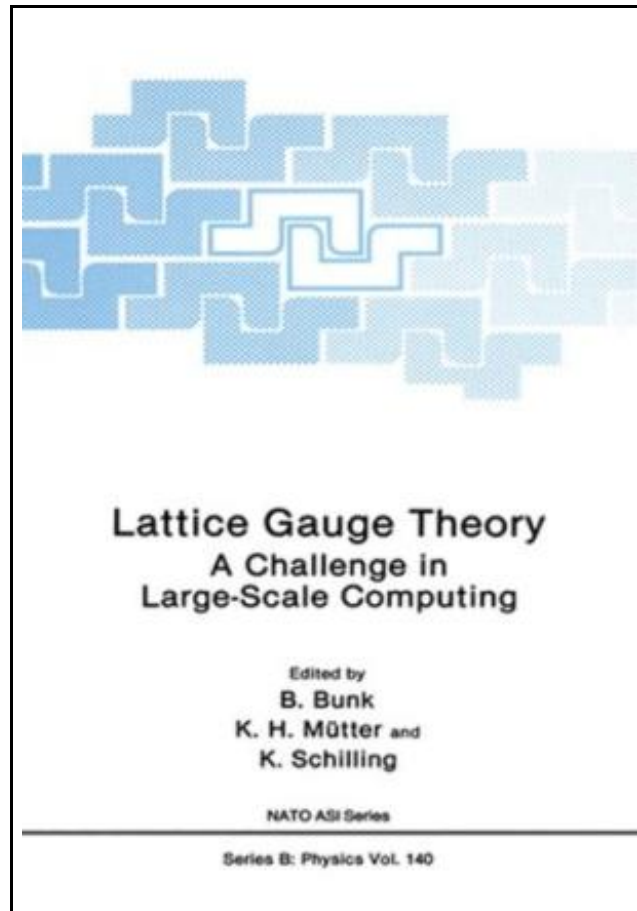


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LATTICE GAUGE THEORY: A CHALLENGE IN LARGE-SCALE COMPUTING



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Springer. Paperback. Book Condition: New. Paperback. 348 pages. Dimensions: 10.0in. x 7.0in. x 0.8in. This volume presents the contributions to the international workshop entitled Lattice Gauge Theory - a Challenge in Large Scale Computing that was held in Wuppertal from November 4 to 7, 1985. This meeting was the third in a series of European workshops in this rapidly developing field. The meeting intended to bring together both active university researchers in this field and scientists from industry and research centers who pursue large scale computing projects on problems within lattice gauge theory. These problems are extremely demanding from the point of view of both machine hardware and algorithms, for the verification of the continuum fields theories like Quantum Chromodynamics in four-dimensional Euclidean space-time is quite cumbersome due to the tremendously large number of degrees of freedom. Yet the motivation of theoretical physicists to exploit computers as tools for the simulation of complex systems such as gauge field theories has grown considerably during the past years. In fact, quite a few prominent colleagues of ours have even gone into machine building, both in industry and research institutions: more parallelism, and more dedicated computer architecture are their design goals to help them boost the Megaflop rate in their simulation processes. The workshop contained several interesting seminars with status reports on such supercomputer projects like the Italian APE (by E. Marinari), the IBM project GF-11 (by D. Weingarten), and the Danish projects MOSES and PALLAS (by H. Bohr). This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.



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