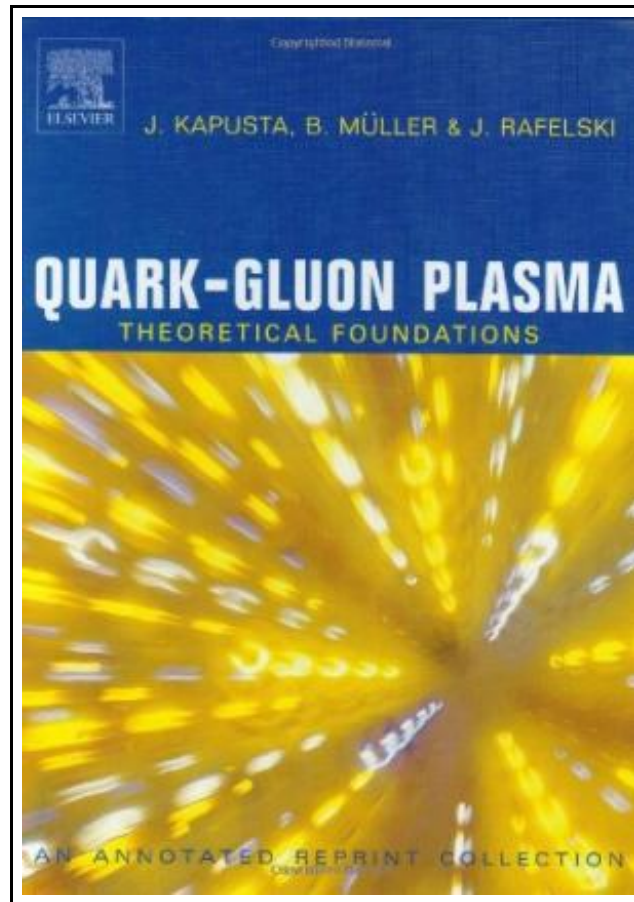


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Reviews

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(Dr. Benjamin Lakin)

QUARK-GLUON PLASMA: AN ANNOTATED REPRINT COLLECTION: THEORETICAL FOUNDATIONS (HARDBACK)



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ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 2003. Hardback. Book Condition: New. New.. 262 x 202 mm. Language: English . Brand New Book. The purpose of this volume is to trace the development of the theoretical understanding of quark-gluon plasma, both in terms of the equation of state and thermal correlation functions and in terms of its manifestation in high energy nuclear collisions. Who among us has not wondered how tall a mountain is on a neutron star, what happens when matter is heated and compressed to higher and higher densities, what happens when an object falls into a black hole, or what happened eons ago in the early universe? The study of quark-gluon plasma is related in one way or another to these and other thought provoking questions. Oftentimes the most eloquent exposition is given in the original papers. To this end a selection is made of what are the most important pioneering papers in this field. The early 1950s was an era when high energy multiparticle production in cosmic ray interactions attracted the attention of some of the brightest minds in physics, and so it should be no surprise that the first reprinted papers deal with the introduction of statistical models of particle production. The quark model arose in the 1960s, while QCD as such was recognized as the theory of the strong interactions in the 1970 s. The behavior of matter at high temperatures and supranuclear densities became of wide interest in the nuclear and particle physics communities starting in the 1970s, which is when the concept of quark-gluon plasma became established. The history of the field has been traced up to the early 1990s. There are three reasons for stopping at that point in time. First, most of the key theoretical concepts and formalisms arose before 1993, although...



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