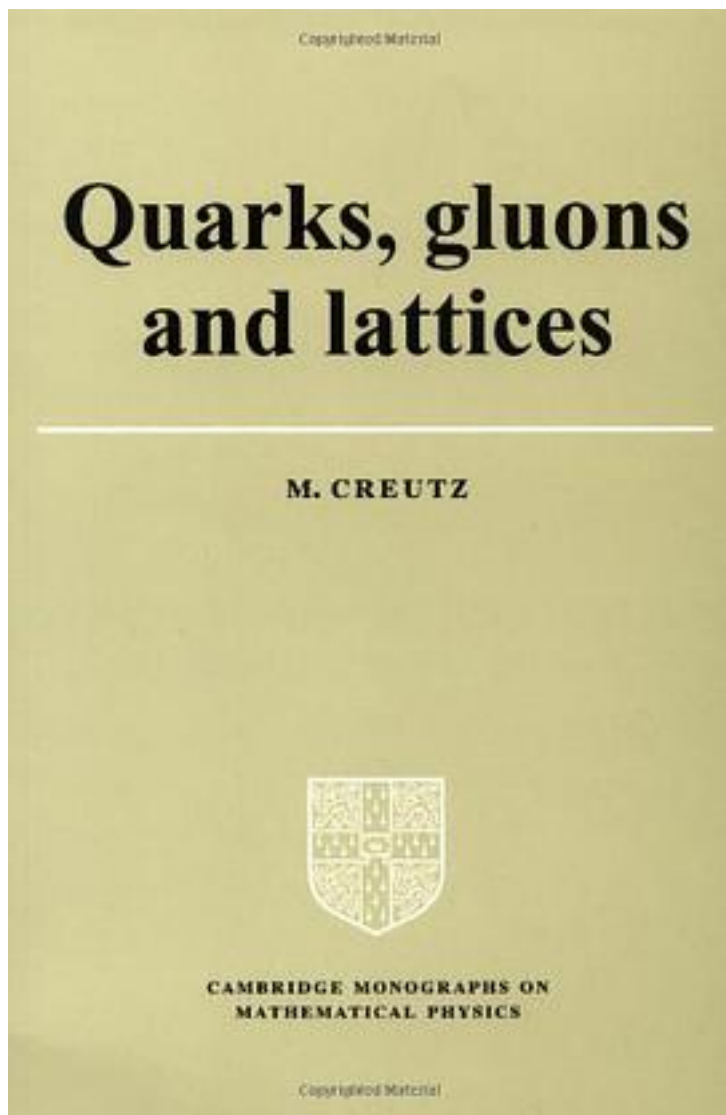


Quarks, Gluons and Lattices



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著者:Creutz, Michael

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This book introduces the lattice approach to quantum field theory. The spectacular successes of this technique include compelling evidence that exchange of gauge gluons can confine the quarks within subnuclear matter. The lattice framework enables novel schemes for quantitative calculation and has caused considerable cross-disciplinary activity between elementary particle and solid state physicists. The treatment begins with the lattice definition of a path integral and ends on Monte Carlo simulation methods. Other topics include invariant group integration, duality, mean field theory and renormalization group techniques. The reader is assumed to have a basic background in relativistic quantum mechanics and some exposure to gauge theories.

作者介绍:

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标签

评论

这本书写的言简意赅，里面的部分思想很别致，讲授套路很新颖。与此同时，其中存在大量的跳步，对读者自主学习很有帮助。但其缺点也正在于此——比如对于Wilson loop部分，初学者很难理解透彻，需要反复揣摩，甚至借助Michael（作者本人）1978年的两篇paper帮助理解。这也许听起来很奇怪，但事实上，paper讲的反而是要通俗一些。不管怎样，总体而言还是相当不错，我发现这些“缺点”大概只是因为我太弱了。
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书评

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