



Quarks, Gluons and Lattices (Paperback)

By Michael Creutz

CAMBRIDGE UNIVERSITY PRESS, United Kingdom, 1985. Paperback. Condition: New. Reprint. Language: English . Brand New Book ***** Print on Demand *****. 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.



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