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Acknowledgment -- References -- CAN THE QUARK MODEL BE RELATIVISTIC ENOUGH TO INCLUDE THE PARTON MODEL? -- Abstract -- 1.Introduction -- 2.Dirac's Attempts to Make Quantum Mechanics Lorentz Co-variant -- 3.Lorentz-Covariant Picture of Quantum Bound States -- 4.Lorentz-Covariant Quark Model -- Conclusion -- Acknowledgment -- References -- RESUMMATIONS IN QCD HARD-SCATTERING AT LARGE AND SMALL x -- Abstract -- 1.Introduction -- 2.Large- x Resummations -- 3.Applications of Large- x Resummations. 4.Loop Calculations in the Eikonal Approximation -- 5.Small- x Resummations -- 6.Conclusion -- Acknowledgements -- References -- SOLITONS AS BARYONS AND QUALITONS AS CONSTITUENT QUARKS IN TWO-DIMENSIONAL QCD -- Abstract -- 1.Introduction -- 2.The GSG Model -- 3.Classical GSG as a Reduced Toda Model Coupled to Matter -- 4.Topological Charges, Baryons as Solitons and Confinement -- 5. Qualitons or Quark Solitons in Two-Dimensional QCD -- 6.Discussion -- Acknowledgements -- A.The Zero-Curvature Formulation of the ATM Model -- References -- INDEX.

Sommario/riassunto

A quark is a type of elementary particle found in protons and neutrons and other subatomic particles. They are a major constituent of matter, along with leptons. This book provides leading edge research on this field from around the globe.
