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Autore	LA ROCCA, Orazio
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Preface; CONTENTS; Introduction; Quantizing Gauge Field Theories; Ghosts for Physicists; Breaking the Symmetry; Towards the Standard Model; Renormalization; Anomalies; Asymptotic Freedom; Magnetic Monopoles; Quark Confinement and Strings; Fixing in Gauge Condition Non-Perturbatively; The Lattice; Fermions on the Lattice; Confrontation with Experiment; Supersymmetry and Supergravity; Physics of the 21st Century

Sommario/riassunto

On the 50th anniversary of Yang-Mills theory, this invaluable volume looks back at the developments and achievements in elementary particle physics that ensued from that beautiful idea. During the last five decades, Yang-Mills theory, which is undeniably the most important cornerstone of theoretical physics, has expanded widely. It has been investigated from many perspectives, and many new and unexpected features have been uncovered from this theory. In recent decades, apart from high energy physics, the theory has been actively applied in other branches of physics, such as statistical physics