

1. Record Nr.	UNINA9910502686603321
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Titolo	Gauge theories in particle physics : a practical introduction . Volume 2 Non-abelian gauge theories : QCD and the electroweak theory // by Ian J R Aitchison and Anthony J.G. Hey
Pubbl/distr/stampa	Taylor & Francis, 2013 Boca Raton, FL : , : CRC Press, an imprint of Taylor and Francis, , 2013 ©2013
ISBN	1-000-56389-8 0-429-18539-1 1-4665-1310-1
Edizione	[Fourth edition.]
Descrizione fisica	1 online resource (512 pages)
Disciplina	530.1435
Soggetti	Gauge fields (Physics) Particles (Nuclear physics)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Front Cover; Dedication; Contents; Preface; V. Non-Abelian Symmetries; 12. Global Non-Abelian Symmetries; 13. Local Non-Abelian (Gauge) Symmetries; VI. QCD and the Renormalization Group; 14. QCD I: Introduction, Tree Graph Predictions, and Jets; 15. QCD II: Asymptotic Freedom, the Renormalization Group, and Scaling Violations; 16. Lattice Field Theory, and the Renormalization Group Revisited; VII. Spontaneously Broken Symmetry; 17. Spontaneously Broken Global Symmetry; 18. Chiral Symmetry Breaking; 19. Spontaneously Broken Local Symmetry; VIII: Weak Interactions and the Electroweak Theory 20. Introduction to the Phenomenology of Weak Interactions 21. CP Violation and Oscillation Phenomena; 22. The Glashow-Salam-Weinberg Gauge Theory of Electroweak Interactions; M. Group Theory; N. Geometrical Aspects of Gauge Fields; O. Dimensional Regularization; P. Grassmann Variables; Q. Feynman Rules for Tree Graphs in QCD and the Electroweak Theory; References
Sommario/riassunto	Volume 2 of this revised and updated edition provides an accessible and practical introduction to the two non-Abelian quantum gauge field

theories of the Standard Model of particle physics: quantum chromodynamics (QCD) and the Glashow-Salam-Weinberg (GSW) electroweak theory. This volume covers much of the experimental progress made in the last ten years. A new chapter on CP violation and oscillation phenomena describes CP violation in B-meson decays as well as the main experiments that have led to our current knowledge of mass-squared differences and mixing angles in neutrino physics. Exploring a new era in particle physics, this edition discusses one of the most recent and exciting breakthroughs—the discovery of a boson with properties consistent with those of the Standard Model Higgs boson. It also updates many other topics, including jet algorithms, lattice QCD, effective Lagrangians, and three-generation quark mixing and the CKM matrix.

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