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Soggetti	Elementary particles (Physics) Quantum field theory Particle acceleration Physical measurements Measurement Elementary Particles, Quantum Field Theory Particle Acceleration and Detection, Beam Physics Measurement Science and Instrumentation
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- The Higgs Boson in the Standard Model of Particle Physics -- Higgs Boson Searches Before the Advent of the Large Hadron Collider -- Discovery of the Higgs boson at the Large Hadron Collider. - Properties of the New Particle.- Conclusions.
Sommario/riassunto	This book provides a comprehensive overview of the field of Higgs boson physics. It offers the first in-depth review of the complete results in connection with the discovery of the Higgs boson at CERN's Large Hadron Collider and based on the full dataset for the years 2011 to 2012. The fundamental concepts and principles of Higgs physics are introduced and the important searches prior to the advent of the Large Hadron Collider are briefly summarized. Lastly, the discovery and first mensuration of the observed particle in the course of the CMS experiment are discussed in detail and compared to the results obtained in the ATLAS experiment.

