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Nota di contenuto	Intro -- What You Can Find in This essential -- Preface -- Contents -- 1 CERN-The Laboratory -- 1.1 The Beginnings -- 1.2 The Organization -- 1.3 A Center of Science and Technology -- 1.4 Life at CERN -- 2 The CERN Accelerators -- 2.1 The Source of Protons -- 2.2 The First Collider-The Intersecting Storage Rings (ISR) -- 2.3 In the Underground-The SPS -- 3 A Bit of Physics-The Standard Model -- 3.1 Quarks, Waves, and Particles -- 3.2 Matter Particles and Force Carriers -- 3.3 Interactions -- 3.4 And the Higgs? -- 4 The First Nobel Prize: The W and Z0 Bosons -- 4.1 The SpbarpS Collider -- 4.2 Antiprotons Are Cool -- 4.3 In the Underground-UA1 and UA2 -- 5 Particle Accelerator-How Does that Work? -- 5.1 How Do You Accelerate Particles? -- 5.2 More Voltage! -- 5.3 Always Straight Ahead-Linear Accelerators -- 5.4 Always Around-Circular Accelerators -- 6 The Large Hadron Collider (LHC) -- 6.1 Think Big!-The 27-Km Tunnel -- 6.2 One Tunnel-Two Accelerators? -- 6.3 Everything's Great, Right?-The Superconducting Super Collider (SSC) -- 6.4 The World Machine -- 6.5 Colder than the Universe -- 6.6 A Quench Rarely Comes Alone -- 7 Outlook -- What You Learned From This essential -- Annex -- Design parameters of the LHC -- References.

