



The Large Hadron Collider

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This richly illustrated, full color book dissects the technology of the LHC into its component parts, showing how state-of-the-art techniques have been applied to beam control (injection, stabilization, acceleration, and dumping); cryogenics; superconducting magnet technology; and vacuum. It also describes the civil engineering and logistical challenges of the construction of the machine as well as the theoretical challenges that drove the scientific community to build the LHC. Each of the experiments is explained in terms of scientific goals, new methods of particle detection, and the specific challenges of handling the millions of gigabytes of data produced every second. Written by the lead scientists involved with the LHC, this book offers a testimonial of this marvelous endeavor from the people most directly involved in its conception and construction.

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