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3.8 Science 'Un-human'3.9 Lessons to be Learned; 3.10 Conclusions; 4 Grid and Cloud; 4.1 Why a Grid?; 4.2 A Production Infrastructure; 4.3 Transferring Technology: Grids in Other Science Domains; 4.4 How CERN Openlab has Contributed to the WLCG Grid; 4.5 Four Basic Principles; 4.6 Three-Year Phases; 4.7 EGEE to EGI Transition; 4.8 Lessons Learned and Anticipated Evolution; 4.9 Transferring Technology: Grids in Business; 4.10 Sharing Resources Through Grids; 4.11 What are the Hurdles?; 4.12 Philips Research: Scientific Simulation, Modelling and Data Mining Supports Healthcare
4.13 Finance: Stock Analysis Application4.14 Multimedia: GridVideo; 4.15 Imense: From Laboratory to Market; 4.16 Total, UK; 4.17 Seismic Imaging and Reservoir Simulation: CGG Veritas Reaping Benefits from the Grid; 4.18 Societal Impact; 5 The 'Touch Screen' Revolution; 5.1 The Birth of a Touch Screen; 5.2 The Novelty for the Control Room of the CERN SPS Accelerator; 5.3 A Touch Screen as Replacement for Mechanical Buttons; 5.4 Attempts at Early Knowledge Transfer; 5.5 Evolution Turned Into Revolution; 5.6 Touch Screen and Human Behaviour; Section 2: Developing Future
6 Solar Thermal Electricity Plants

Sommario/riassunto

Beatrice Bressan brings together a number of outstanding examples of successful cross-disciplinary technology transfer originating in fundamental physics research, which dramatically impacted scientific progress in areas which changed modern society. Many of them were developed at CERN, a hotbed of fundamental inventions in particle physics. This book deals with breakthrough developments being applied in the world of IT, consumer electronics, aviation, and material sciences. Additional sections of the book deal with knowledge management and technology transfer including their economic aspect
