



Field Theories of Condensed Matter Physics

By Eduardo Fradkin

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Presenting the physics of the most challenging problems in condensed matter using the conceptual framework of quantum field theory, this book is of great interest to physicists in condensed matter and high energy and string theorists, as well as mathematicians. Revised and updated, this second edition features new chapters on the renormalization group, the Luttinger liquid, gauge theory, topological fluids, topological insulators and quantum entanglement. The book begins with the basic concepts and tools, developing them gradually to bring readers to the issues currently faced at the frontiers of research, such as topological phases of matter, quantum and classical critical phenomena, quantum Hall effects and superconductors. Other topics covered include one-dimensional strongly correlated systems, quantum ordered and disordered phases, topological structures in condensed matter and in field theory and fractional statistics.

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Field Theories of Condensed Matter Physics By Eduardo Fradkin Bibliography

- Sales Rank: #593888 in Books
- Brand: Brand: Cambridge University Press
- Published on: 2013-04-15
- Original language: English
- Number of items: 1
- Dimensions: 9.72" h x 1.73" w x 6.85" l, .0 pounds
- Binding: Hardcover
- 856 pages

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Editorial Review

About the Author

Eduardo Fradkin is a Professor of Physics at the University of Illinois, Urbana-Champaign and the current Director of the Institute for Condensed Matter Theory of the University of Illinois. He received his Licenciado (Master's) degree in Physics from the University of Buenos Aires in 1973 and his PhD in Physics from Stanford University, California in 1979. Fradkin is a condensed matter theorist, and has worked on gauge theory, frustrated and disordered systems, classical and quantum critical phenomena, strongly correlated systems, fractional quantum hall fluids and other topological phases of matter, high temperature superconductivity and quantum entanglement in quantum field theory and condensed matter.

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