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Composite Fermions



Synopsis

This book was first published in 2007. When electrons are confined to two dimensions, cooled to near absolute zero temperature, and subjected to a strong magnetic field, they form an exotic new collective state of matter. Investigations into this began with the observations of integral and fractional quantum Hall effects, which are among the most important discoveries in condensed matter physics. The fractional quantum Hall effect and a stream of other unexpected findings are explained by a new class of particles: composite fermions. This textbook is a self-contained, pedagogical introduction to the physics and experimental manifestations of composite fermions. Ideal for graduate students and academic researchers, it contains numerous exercises to reinforce the concepts presented. The topics covered include the integral and fractional quantum Hall effects, the composite-fermion Fermi sea, various kinds of excitations, the role of spin, edge state transport, electron solid, bilayer physics, fractional braiding statistics and fractional local charge.

Book Information

Hardcover: 560 pages

Publisher: Cambridge University Press; 1 edition (April 9, 2007)

Language: English

ISBN-10: 1107017130

ISBN-13: 978-0521862325

ASIN: 0521862329

Product Dimensions: 6.8 x 1.2 x 9.7 inches

Shipping Weight: 2.5 pounds (View shipping rates and policies)

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