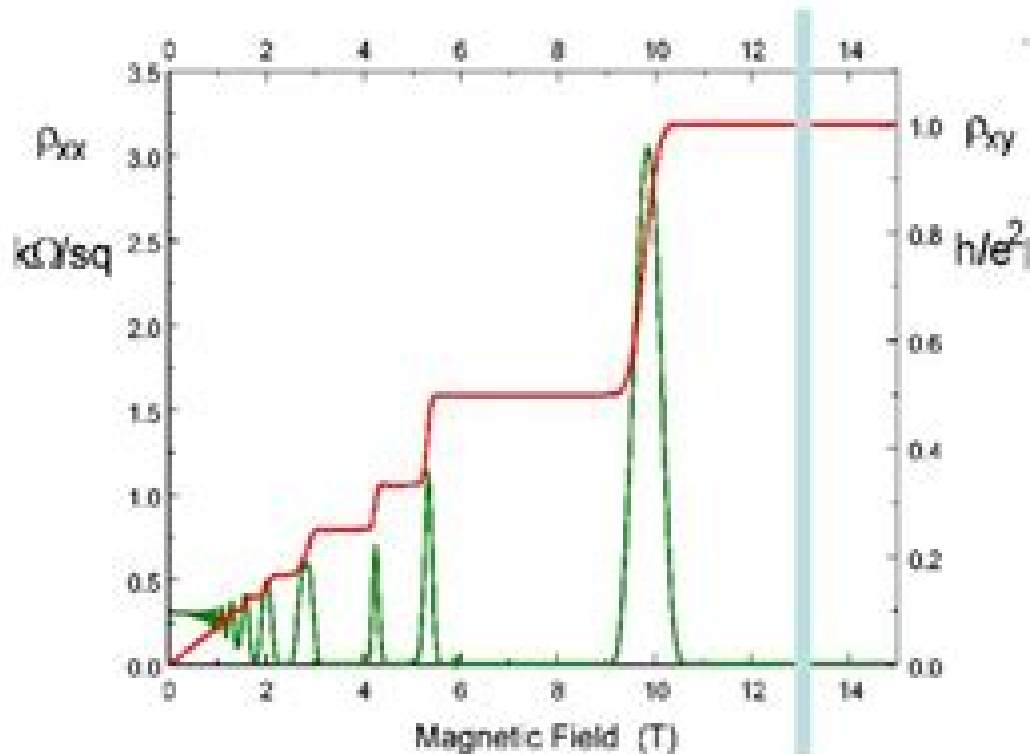


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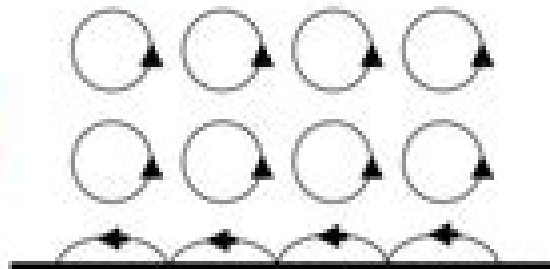
von Klitzing et al. (1980)



$$J_y = \sigma_{xy} E_x$$

$$\sigma_{xy} = n \frac{e^2}{h}$$

chiral



edge states

Quantum Hall Effect

Bertrand I Halperin, Jainendra K Jain



Quantum Hall Effect:

The Quantum Hall Effect Daijiro Yoshioka, 2013-03-09 Today more than 20 years after the discovery of the quantum Hall effect the number of publications in this field at more than one paper per day is still increasing This remarkable fact requires some explanation It also poses but perhaps also answers the question of why a new monograph entitled *The Quantum Hall Effect* is a highly desirable addition to the literature Originally the quantum Hall effect QHE was a term coined to describe the unexpected observation of a fundamental electrical resistance with a value independent of the microscopic details of the semiconductor device The simplest explanation of this phenomenon was based on an independent electron picture The subsequent discovery of the fractional quantum Hall effect demonstrated that a many body wave function and a more global view of the system is necessary to incorporate and explain interesting new aspects Today the quantum Hall effect has become a pseudonym for many different phenomena observed in high magnetic fields with connections not only to solid state physics but also to theoretical descriptions in plasma physics astrophysics atomic physics and high energy physics There are even speculations that a higher dimensional generalization of the QHE may be useful for discussing questions related to the basic properties of space

The Quantum Hall Effect Richard E. Prange, Steven M. Girvin, 2012-12-06 After a foreword by Klaus von Klitzing the first chapters of this book discuss the prehistory and the theoretical basis as well as the implications of the discovery of the Quantum Hall effect on superconductivity superfluidity and metrology including experimentation The second half of this volume is concerned with the theory of and experiments on the many body problem posed by fractional effect Specific unsolved problems are mentioned throughout the book and a summary is made in the final chapter The quantum Hall effect was discovered on about the hundredth anniversary of Hall's original work and the finding was announced in 1980 by von Klitzing Dorda and Pepper Klaus von Klitzing was awarded the 1985 Nobel prize in physics for this discovery

Quantum Hall Effect Michael Stone, 1992 This book is a compilation of major reprint articles on one of the most intriguing phenomena in modern physics the quantum Hall effect Together with a detailed introduction by the editor this volume serves as a stimulating and valuable reference for students and research workers in condensed matter physics and for those with a particle physics background The papers have been chosen with the intention of emphasizing the topological aspects of the quantum Hall effect and its connections with other branches of theoretical physics such as topological quantum field theories and string theory The contents include sections on integer effect fractional effect effect of global topology effective theories edge states and non Abelian statistics

The Quantum Hall Effect Richard E. Prange, Steven M. Girvin, 2012-12-06 analyze the Hall effect in the plateau region relative to the fundamental value $2h/e$ expected in the simple one electron picture for integer filling factors of Landau levels Subsequent work in my laboratory in Würzburg using a superconducting solenoid confirmed the constancy of the Hall resistance both in Dorda's samples and in samples supplied by M Pepper of the Cavendish Laboratory With technical assistance from the Physikalisch Technische

Bundesanstalt in Braunschweig an absolute measurement of the Hall resistance confirmed the 2 fundamental quantization relation $R_{H,i} = h/e^2$ to an accuracy of about 1 part in 10⁵. Recalling the practical applications of the Josephson effect my initial thinking was oriented toward the idea of a resistance standard but various groups at national laboratories which are involved in high precision measurements of fundamental constants pointed out that in addition the quantized Hall resistance yields a new fundamental measure of the fine structure constant α . These then were the initial events which led to the remarkable surge of interest within both the metrology and condensed matter physics communities in quantum transport in inversion layer systems. Subsequent developments have been many and varied and are described in detail in this volume.

The Quantum Hall Effects Tapash Chakraborty, Pekka Pietiläinen, 2013-03-12 The experimental discovery of the fractional quantum Hall effect (FQHE) at the end of 1981 by Tsui, Stormer and Gossard was absolutely unexpected since at this time no theoretical work existed that could predict new structures in the magnetotransport coefficients under conditions representing the extreme quantum limit. It is more than thirty years since investigations of bulk semiconductors in very strong magnetic fields were begun. Under these conditions only the lowest Landau level is occupied and the theory predicted a monotonic variation of the resistivity with increasing magnetic field depending sensitively on the scattering mechanism. However the experimental data could not be analyzed accurately since magnetic freeze out effects and the transitions from a degenerate to a nondegenerate system complicated the interpretation of the data. For a two dimensional electron the positive background charge is well separated from the two gas where dimensional system magnetic freeze out effects are barely visible and an analysis of the data in the extreme quantum limit seems to be easier. First measurements in this magnetic field region on silicon field effect transistors were not successful because the disorder in these devices was so large that all electrons in the lowest Landau level were localized. Consequently models of a spin glass and finally of a Wigner solid were developed and much effort was put into developing the technology for improving the quality of semiconductor materials and devices especially in the field of two dimensional electron systems.

Introduction to the Theory of the Integer

Quantum Hall Effect Martin Janßen, 1994-08-09 This book has been conceived as a multipurpose introduction and comprises three parts that can be viewed as independent units. The reader can start at any level. The first part (chapters 2-3) is intended to convey physical insight into the subject. The next part (chapters 4-8) presents linear response theory as a basic tool and gives various applications of the theory. The final part (chapters 9-12) develops modern aspects such as localization transition as a critical phenomenon and the methods of finite size scaling and multifractal analysis. Experimental and theoretical physicists graduate students as well as experts in transport theory will discover new aspects and interesting perspectives on magnetotransport.

Introduction to Quantum Hall Effect Keshav Narin Shrivastava, 2002 NMR in quantum Hall effect is described and electronic polarization at half filled Landau levels is given. Important appendices are provided.

BOOK JACKET **Quantum Hall Effects** Zyun Francis Ezawa, 2008 A pedagogical and self contained discussion on

monolayer and bilayer quantum Hall systems is given in this volume in a field theoretical framework with an introduction to quantum field theory anyon physics and Chern Simons gauge theory

The Fractional Quantum Hall Effect Tapash Chakraborty, Pekka Pietiläinen, 2012-12-06 The experimental discovery of the fractional quantum Hall effect FQHE at the end of 1981 by Tsui Stormer and Gossard was absolutely unexpected since at this time no theoretical work existed that could predict new structures in the magnetotransport coefficients under conditions representing the extreme quantum limit It is more than thirty years since investigations of bulk semiconductors in very strong magnetic fields were begun Under these conditions only the lowest Landau level is occupied and the theory predicted a monotonic variation of the resistivity with increasing magnetic field depending sensitively on the scattering mechanism However the experimental data could not be analyzed accurately since magnetic freeze out effects and the transitions from a degenerate to a nondegenerate system complicated the interpretation of the data For a two dimensional electron gas where the positive background charge is well separated from the two dimensional system magnetic freeze out effects are barely visible and an analysis of the data in the extreme quantum limit seems to be easier First measurements in this magnetic field region on silicon field effect transistors were not successful because the disorder in these devices was so large that all electrons in the lowest Landau level were localized Consequently models of a spin glass and finally of a Wigner solid were developed and much effort was put into developing the technology for improving the quality of semiconductor materials and devices especially in the field of two dimensional electron systems

Fractional Quantum Hall Effects: New Developments Bertrand I Halperin, Jainendra K Jain, 2020-06-09 The fractional quantum Hall effect has been one of the most active areas of research in quantum condensed matter physics for nearly four decades serving as a paradigm for unexpected and exotic emergent behavior arising from interactions This book featuring a collection of articles written by experts and a Foreword by Klaus von Klitzing the discoverer of quantum Hall effect and winner of 1985 Nobel Prize in physics aims to provide a coherent account of the exciting new developments and the current status of the field

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