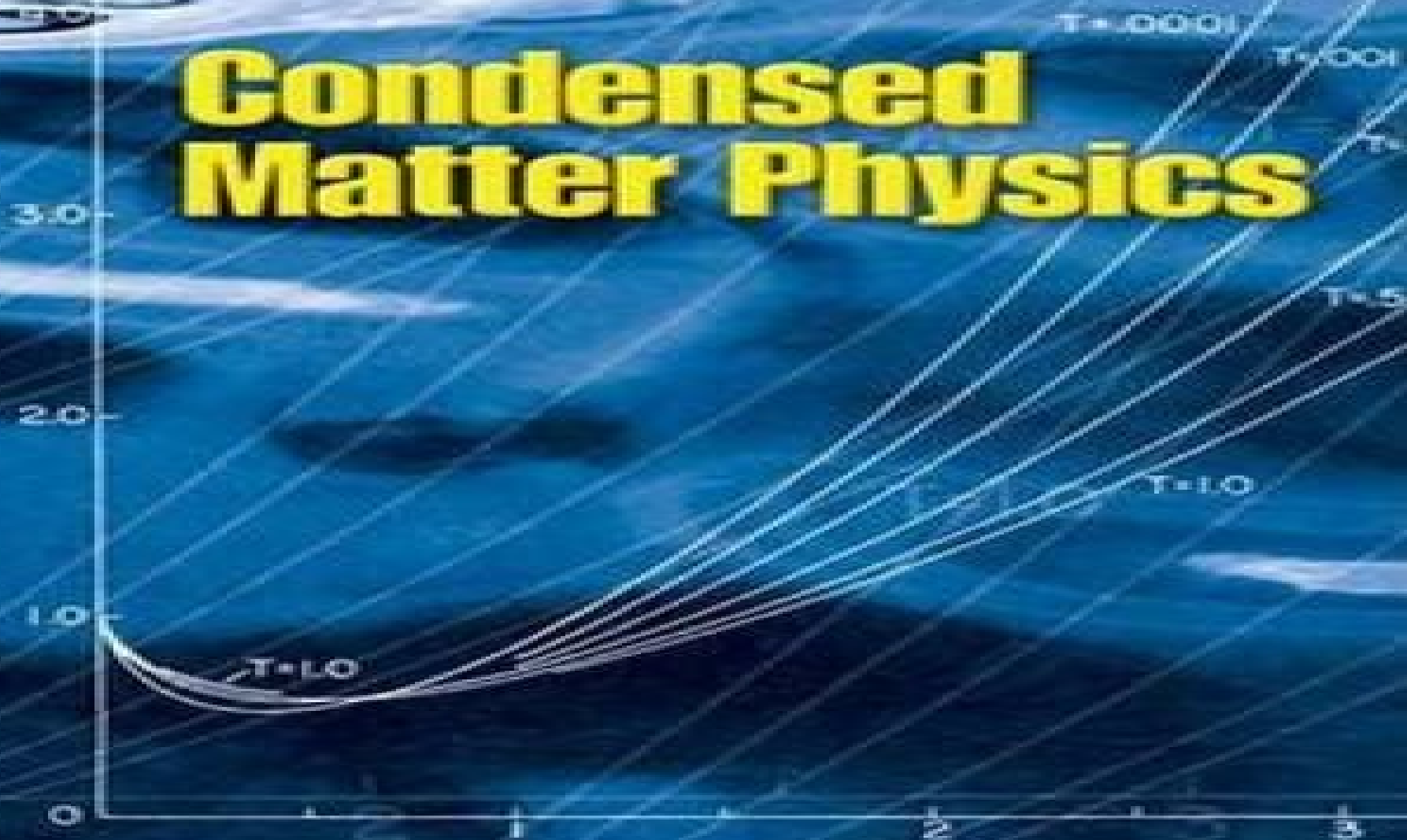


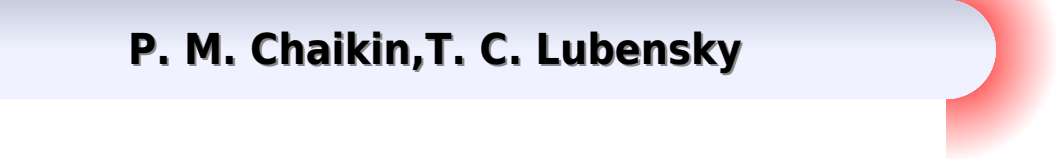
Condensed Matter Physics



AKIRA ISIHARA

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P. M. Chaikin, T. C. Lubensky



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statistical mechanics electricity and magnetism and Green's function formalism for the second semester curriculum Covers many advanced topics and recent developments in condensed matter physics which are not included in other texts and are hot areas Spintronics Heavy fermions Metallic nanoclusters ZnO Graphene and graphene based electronic Quantum hall effect High temperature superconductivity Nanotechnology Offers a diverse number of Experimental techniques clearly simplified Features end of chapter problems

Principles of Condensed Matter Physics P. M. Chaikin, T. C.

Lubensky, 2000-09-28 This successful and widely reviewed book covering the physics of condensed matter systems is now available in paperback

Basic Notions Of Condensed Matter Physics Philip W. Anderson, 2018-03-09 Basic Notions of

Condensed Matter Physics is a clear introduction to some of the most significant concepts in the physics of condensed matter The general principles of many body physics and perturbation theory are emphasised providing supportive mathematical structure This is an expansion and restatement of the second half of Nobel Laureate Philip Anderson's classic Concepts in Solids

Topology and Condensed Matter Physics Somendra Mohan Bhattacharjee, Mahan Mj, Abhijit

Bandyopadhyay, 2017-12-20 This book introduces aspects of topology and applications to problems in condensed matter physics Basic topics in mathematics have been introduced in a form accessible to physicists and the use of topology in quantum statistical and solid state physics has been developed with an emphasis on pedagogy The aim is to bridge the language barrier between physics and mathematics as well as the different specializations in physics Pitched at the level of a graduate student of physics this book does not assume any additional knowledge of mathematics or physics It is therefore suited for advanced postgraduate students as well A collection of selected problems will help the reader learn the topics on one's own and the broad range of topics covered will make the text a valuable resource for practising researchers in the field The book consists of two parts one corresponds to developing the necessary mathematics and the other discusses applications to physical problems The section on mathematics is a quick but more or less complete review of topology The focus is on explaining fundamental concepts rather than dwelling on details of proofs while retaining the mathematical flavour There is an overview chapter at the beginning and a recapitulation chapter on group theory The physics section starts with an introduction and then goes on to topics in quantum mechanics statistical mechanics of polymers knots and vertex models solid state physics exotic excitations such as Dirac quasiparticles Majorana modes Abelian and non Abelian anyons Quantum spin liquids and quantum information processing are also covered in some detail

Many-Body Quantum

Theory in Condensed Matter Physics Henrik Bruus, Karsten Flensberg, 2004-09-03 This book is an introduction to the techniques of many body quantum theory with a large number of applications to condensed matter physics The basic idea of the book is to provide a self contained formulation of the theoretical framework without losing mathematical rigor while at the same time providing physical motivation and examples The examples are taken from applications in electron systems and transport theory On the formal side the book covers an introduction to second quantization many body Green's function finite

temperature Feynman diagrams and bosonization The applications include traditional transport theory in bulk as well as mesoscopic systems where both the Landau B ttiker formalism and recent developments in correlated transport phenomena in mesoscopic systems and nano structures are covered Other topics include interacting electron gases plasmons electron phonon interactions superconductivity and a final chapter on one dimensional systems where a detailed treatment of Luttinger liquid theory and bosonization techniques is given Having grown out of a set of lecture notes and containing many pedagogical exercises this book is designed as a textbook for an advanced undergraduate or graduate course and is also well suited for self study

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