

Theoretical Solid State Physics, Volume 1: **Perfect Lattices in Equilibrium (Dover Books** on Physics)

By William Jones, Norman H. March, Physics



Theoretical Solid State Physics, Volume 1: Perfect Lattices in Equilibrium (Dover Books on Physics) By William Jones, Norman H. March, Physics

This monumental two-volume work is one of the most extensive treatments of solid state theory ever published. Intended primarily for professional theoretical physicists and postgraduate students, it offers detailed, thorough coverage of the most important aspects of solid state physics, presented in an unusually readable manner. Difficult topics (e.g. many-body theory) are covered with a clarity that renders them accessible to experimental physicists as well.

Concisely written and well-organized, the two volumes are concerned with quite different aspects of the subjects.

Volume I deals with the fundamental theory of the equilibrium properties of perfect crystalline solids. Major topics include: Band Theory and Crystal Symmetry; Collective Effects in Solids; Lattice Waves; Spin and Orbital Magnetism; and Interaction of Particles with a Crystal.

Volume II deals in detail with non-equilibrium properties and also includes a discussion of defects and disordered systems. Topics include: Transport; Optical Properties; Superconductivity; Polarons and Excitons; and Defects and Disordered Systems.

Students will especially appreciate the wealth of useful problems included in both volumes, along with numerous explanatory diagrams and helpful appendixes. Professional physicists will welcome the comprehensiveness and thoroughness of Theoretical Solid State Physics, still unsurpassed as a basic reference work in an important and fast-moving discipline.



Download Theoretical Solid State Physics, Volume 1: Perfect ...pdf



Read Online Theoretical Solid State Physics, Volume 1: Perfe ...pdf

Theoretical Solid State Physics, Volume 1: Perfect Lattices in Equilibrium (Dover Books on Physics)

By William Jones, Norman H. March, Physics

Theoretical Solid State Physics, Volume 1: Perfect Lattices in Equilibrium (Dover Books on Physics) By William Jones, Norman H. March, Physics

This monumental two-volume work is one of the most extensive treatments of solid state theory ever published. Intended primarily for professional theoretical physicists and postgraduate students, it offers detailed, thorough coverage of the most important aspects of solid state physics, presented in an unusually readable manner. Difficult topics (e.g. many-body theory) are covered with a clarity that renders them accessible to experimental physicists as well.

Concisely written and well-organized, the two volumes are concerned with quite different aspects of the subjects.

Volume I deals with the fundamental theory of the equilibrium properties of perfect crystalline solids. Major topics include: Band Theory and Crystal Symmetry; Collective Effects in Solids; Lattice Waves; Spin and Orbital Magnetism; and Interaction of Particles with a Crystal.

Volume II deals in detail with non-equilibrium properties and also includes a discussion of defects and disordered systems. Topics include: Transport; Optical Properties; Superconductivity; Polarons and Excitons; and Defects and Disordered Systems.

Students will especially appreciate the wealth of useful problems included in both volumes, along with numerous explanatory diagrams and helpful appendixes. Professional physicists will welcome the comprehensiveness and thoroughness of *Theoretical Solid State Physics*, still unsurpassed as a basic reference work in an important and fast-moving discipline.

Theoretical Solid State Physics, Volume 1: Perfect Lattices in Equilibrium (Dover Books on Physics) By William Jones, Norman H. March, Physics Bibliography

Sales Rank: #1448061 in Books
Published on: 2011-11-02
Released on: 2011-10-05
Original language: English

• Number of items: 1

• Dimensions: 8.45" h x 1.29" w x 5.42" l, 1.55 pounds

• Binding: Paperback

• 704 pages



Read Online Theoretical Solid State Physics, Volume 1: Perfe ...pdf

Download and Read Free Online Theoretical Solid State Physics, Volume 1: Perfect Lattices in Equilibrium (Dover Books on Physics) By William Jones, Norman H. March, Physics

Editorial Review

Users Review

From reader reviews:

Brent Thompson:

As people who live in the modest era should be revise about what going on or facts even knowledge to make them keep up with the era which is always change and make progress. Some of you maybe may update themselves by looking at books. It is a good choice for you personally but the problems coming to anyone is you don't know which you should start with. This Theoretical Solid State Physics, Volume 1: Perfect Lattices in Equilibrium (Dover Books on Physics) is our recommendation to cause you to keep up with the world. Why, because this book serves what you want and need in this era.

Jim Weigel:

Are you kind of stressful person, only have 10 or even 15 minute in your day time to upgrading your mind ability or thinking skill perhaps analytical thinking? Then you are experiencing problem with the book when compared with can satisfy your short period of time to read it because pretty much everything time you only find guide that need more time to be examine. Theoretical Solid State Physics, Volume 1: Perfect Lattices in Equilibrium (Dover Books on Physics) can be your answer given it can be read by anyone who have those short free time problems.

Vicky Moore:

Don't be worry for anyone who is afraid that this book will probably filled the space in your house, you could have it in e-book way, more simple and reachable. This kind of Theoretical Solid State Physics, Volume 1: Perfect Lattices in Equilibrium (Dover Books on Physics) can give you a lot of friends because by you looking at this one book you have issue that they don't and make you more like an interesting person. This particular book can be one of a step for you to get success. This publication offer you information that maybe your friend doesn't know, by knowing more than other make you to be great individuals. So, why hesitate? We should have Theoretical Solid State Physics, Volume 1: Perfect Lattices in Equilibrium (Dover Books on Physics).

Jeff Keenan:

You will get this Theoretical Solid State Physics, Volume 1: Perfect Lattices in Equilibrium (Dover Books on Physics) by visit the bookstore or Mall. Just simply viewing or reviewing it could to be your solve issue if you get difficulties on your knowledge. Kinds of this e-book are various. Not only by means of written or printed but can you enjoy this book by simply e-book. In the modern era similar to now, you just looking by

your mobile phone and searching what their problem. Right now, choose your current ways to get more information about your book. It is most important to arrange you to ultimately make your knowledge are still change. Let's try to choose correct ways for you.

Download and Read Online Theoretical Solid State Physics, Volume 1: Perfect Lattices in Equilibrium (Dover Books on Physics) By William Jones, Norman H. March, Physics #VQNCPM4KX6H

Read Theoretical Solid State Physics, Volume 1: Perfect Lattices in Equilibrium (Dover Books on Physics) By William Jones, Norman H. March, Physics for online ebook

Theoretical Solid State Physics, Volume 1: Perfect Lattices in Equilibrium (Dover Books on Physics) By William Jones, Norman H. March, Physics Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Theoretical Solid State Physics, Volume 1: Perfect Lattices in Equilibrium (Dover Books on Physics) By William Jones, Norman H. March, Physics books to read online.

Online Theoretical Solid State Physics, Volume 1: Perfect Lattices in Equilibrium (Dover Books on Physics) By William Jones, Norman H. March, Physics ebook PDF download

Theoretical Solid State Physics, Volume 1: Perfect Lattices in Equilibrium (Dover Books on Physics) By William Jones, Norman H. March, Physics Doc

Theoretical Solid State Physics, Volume 1: Perfect Lattices in Equilibrium (Dover Books on Physics) By William Jones, Norman H. March, Physics Mobipocket

Theoretical Solid State Physics, Volume 1: Perfect Lattices in Equilibrium (Dover Books on Physics) By William Jones, Norman H. March, Physics EPub

VQNCPM4KX6H: Theoretical Solid State Physics, Volume 1: Perfect Lattices in Equilibrium (Dover Books on Physics) By William Jones, Norman H. March, Physics