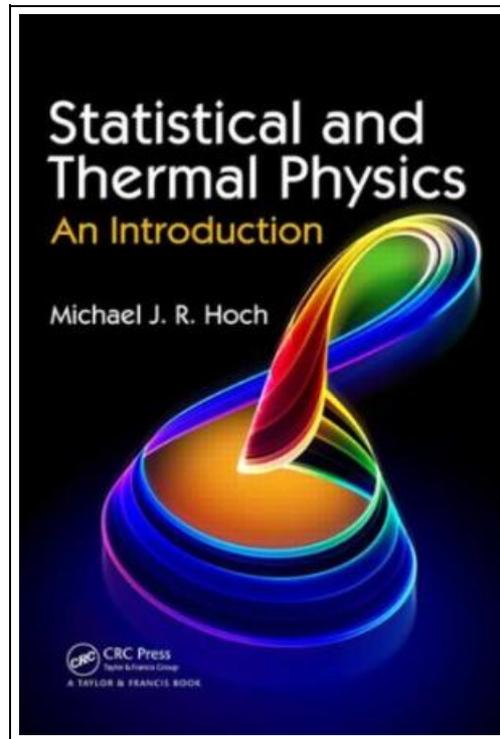


Statistical and Thermal Physics: An Introduction (Hardback)



Filesize: 7.57 MB

Reviews

It is an incredible book which i actually have ever go through. it had been writtern extremely completely and helpful. You can expect to like the way the blogger publish this book.
(Prof. Jerad Lesch)

STATISTICAL AND THERMAL PHYSICS: AN INTRODUCTION (HARDBACK)



Taylor Francis Inc, United States, 2011. Hardback. Book Condition: New. 236 x 163 mm. Language: English . Brand New Book. Concepts and relationships in thermal and statistical physics form the foundation for describing systems consisting of macroscopically large numbers of particles. Developing microscopic statistical physics and macroscopic classical thermodynamic descriptions in tandem, *Statistical and Thermal Physics: An Introduction* provides insight into basic concepts at an advanced undergraduate level. Highly detailed and profoundly thorough, this comprehensive introduction includes exercises within the text as well as end-of-chapter problems. The first section of the book covers the basics of equilibrium thermodynamics and introduces the concepts of temperature, internal energy, and entropy using ideal gases and ideal paramagnets as models. The chemical potential is defined and the three thermodynamic potentials are discussed with use of Legendre transforms. The second section presents a complementary microscopic approach to entropy and temperature, with the general expression for entropy given in terms of the number of accessible microstates in the fixed energy, microcanonical ensemble. The third section emphasizes the power of thermodynamics in the description of processes in gases and condensed matter. Phase transitions and critical phenomena are discussed phenomenologically. In the second half of the text, the fourth section briefly introduces probability theory and mean values and compares three statistical ensembles. With a focus on quantum statistics, the fifth section reviews the quantum distribution functions. Ideal Fermi and Bose gases are considered in separate chapters, followed by a discussion of the Planck gas for photons and phonons. The sixth section deals with ideal classical gases and explores nonideal gases and spin systems using various approximations. The final section covers special topics, specifically the density matrix, chemical reactions, and irreversible thermodynamics.



[Read Statistical and Thermal Physics: An Introduction \(Hardback\) Online](#)



[Download PDF Statistical and Thermal Physics: An Introduction \(Hardback\)](#)

Other PDFs



DK Readers Day at Greenhill Farm Level 1 Beginning to Read

DK CHILDREN. Paperback. Book Condition: New. Paperback. 32 pages. Dimensions: 8.8in. x 5.7in. x 0.2in. This Level 1 book is appropriate for children who are just beginning to read. When the rooster crows, Greenhill Farm springs...

[Read ePub »](#)



California Version of Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package

Pearson, United States, 2015. Loose-leaf. Book Condition: New. 10th. 249 x 201 mm. Language: English . Brand New Book. NOTE: Used books, rentals, and purchases made outside of Pearson If purchasing or renting from companies...

[Read ePub »](#)



Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package

Pearson, United States, 2015. Book. Book Condition: New. 10th. 250 x 189 mm. Language: English . Brand New Book. NOTE: Used books, rentals, and purchases made outside of Pearson If purchasing or renting from companies...

[Read ePub »](#)



Who Am I in the Lives of Children? an Introduction to Early Childhood Education with Enhanced Pearson Etext - Access Card Package

Pearson, United States, 2015. Paperback. Book Condition: New. 10th. 251 x 203 mm. Language: English . Brand New Book. NOTE: Used books, rentals, and purchases made outside of Pearson If purchasing or renting from companies...

[Read ePub »](#)



Children s Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]

Createspace, United States, 2013. Paperback. Book Condition: New. 254 x 178 mm. Language: English . Brand New Book ***** Print on Demand *****.ABOUT SMART READS for Kids . Love Art, Love Learning Welcome. Designed to...

[Read ePub »](#)

**Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 5: Craig Saves the Day (Hardback)**

Oxford University Press, United Kingdom, 2011. Hardback. Book Condition: New. 173 x 145 mm. Language: English . Brand New Book. Read With Biff, Chip and Kipper is the UK's best-selling home reading series. It

[Read Book »](#)

**Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 6: Save Pudding Wood (Hardback)**

Oxford University Press, United Kingdom, 2011. Hardback. Book Condition: New. 172 x 142 mm. Language: English . Brand New Book. Read With Biff, Chip and Kipper is the UK's best-selling home reading series. It

[Read Book »](#)

**Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 4: Wet Feet (Hardback)**

Oxford University Press, United Kingdom, 2011. Hardback. Book Condition: New. 172 x 142 mm. Language: English . Brand New Book. Read With Biff, Chip and Kipper is the UK's best-selling home reading series. It

[Read Book »](#)

**The Monster Next Door - Read it Yourself with Ladybird: Level 2**

Penguin Books Ltd. Paperback. Book Condition: new. BRAND NEW, The Monster Next Door - Read it Yourself with Ladybird: Level 2, The Monster Next Door, George wants to be a monster, just like his neighbour

[Read Book »](#)

**Peter Rabbit: Treehouse Rescue - Read it Yourself with Ladybird: Level 2**

Penguin Books Ltd. Paperback. Book Condition: new. BRAND NEW, Peter Rabbit: Treehouse Rescue - Read it Yourself with Ladybird: Level 2, This is based on the new Peter Rabbit animated TV series. Peter and Lily

[Read Book »](#)