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this is a textbook for the standard undergraduate level course in thermal physics sometimes called thermodynamics or statistical mechanics originally published in 1999 it quickly gained market share and has now been the most widely used english language text for such courses as taught in physics departments for more than a decade its clear and accessible writing style has also made it popular among graduate students and

professionals who want to gain abetter understanding of thermal physics the book explores applications to engineering chemistry biology geology atmospheric science astrophysics cosmology and everyday life it includes twoappendices reference data an annotated bibliography a complete index and 486 homework problems

this wholly revised edition of a classic handbook reference written by some of the most eminent practitioners in the field is designed to be your all in one source book on heat transfer issues and problem solving it includes the latest advances in the field as well as covering subjects from microscale heat transfer to thermophysical properties of new refrigerants an invaluable guide to this most crucial factor in virtually every industrial and environmental process

heit aufgeiaßt werden muß dabei werden sich als resultate von zentraler be deutung ergeben diejenige größe welche die ganze thermodynamik beherrscht nämlich die entropie erweist sich als quantitatives maß der soeben geschilderten unkenntnis das ist fraglos eine der merkwürdigsten und tiefstliegenden aus sagen der ganzen physik sie wird natürlich nur sinnvoll durch eine exakte formulierung welche erst nach den vorarbeiten der nächsten abschnitte erfolgen kann ein beherrschender zug der statistischen mechanik besteht darin daß die zahl der mikroskopischen freiheitsgrade im wesentlichen gegeben durch die zahl n der im system enthaltenen atome so ungeheuer groß ist obwohl mit wachsendem n unsere kenntnis von der mikroskopischen struktur immer geringer wird werden dennoch die oben angedeuteten wahrscheinlichkeitsaus sagen über makroskopische größen um so schärfer je größer n ist in dem sinne daß wir im limes n oo wieder zu sicheren aussagen gelangen dieser zug der wahrscheinlichkeitsrechnung ist so charakteristisch daß wir ihn gleich jetzt an einem primitiven beispiel erläutern wollen ein gas bestehe aus n molekülen welche sich unabhängig voneinander in einem volumen v bewegen ideales gas wir grenzen innerhalb v ein dagegen kleines volumen v ab und interessieren uns für die zahl n der moleküle welche sich in v aufhalten nennen wir v und 1 p q y p so sind p bzw q die wahrscheinlichkeiten dafür ein hervorgehobenes molekül innerhalb bzw außerhalb v zu finden

this book contains a modern selection of about 200 solved problems and examples arranged in a didactic way for hands on experience with course work in a standard advanced undergraduate first year graduate class in thermodynamics and statistical physics the principles of thermodynamics and equilibrium statistical physics are few and simple but their application often proves more involved than it may seem at first sight this book is a comprehensive complement to any textbook in the field emphasizing the analogies between the different systems and paves the way for an in depth study of solid state physics soft matter physics and field theory

the first objective of statistical mechanics is to explain the fundamental laws of

thermodynamics from first principles based on the atomic structure of matter this problem was attacked successfully first by maxwell and clausius in studies on the kinetic theory of gases it will be treated briefly in sec ii a to gain some understanding and experience before dealing with more general problems the second objective is then to calculate thermodynamics quantities from the microscopic laws governing the atomic motion whenever we try to lay the foundation of thermodynamics on an atomistic theory we are confronted with a very strange situation the thermodynamical state of a system is defined uniquely by only a few quantities such as pressure volume energy temperature flow velocities etc in contrast the atomistic descrip tion needs an enormous number of variables to define a state e g positions and velocities of all the atoms involved in classical mechanics or schrodinger's wave function of the corresponding n body problem in quantum mechanics classical mechanics for instance can predict the future development only if all the positions and velocities are known say at time t o the number of values needed for this 23 purpose is of the order of 10 actually only a few parameters are at our disposal from thermodynamics therefore from thermodynamics we know almost nothing about the atomistic situation

63 heit aufgefaßt werden muß dabei werden sich als resultate von zentraler be deutung ergeben diejenige größe welche die ganze thermodynamik beherrscht nämlich die entropie erweist sich als quantitatives maß der soeben geschilderten unkenntnis das ist fraglos eine der merkwürdigsten und tiefstliegenden aus sagen der ganzen physik sie wird natürlich nur sinnvoll durch eine exakte formulierung welche erst nach den vorarbeiten der nächsten abschnitte erfolgen kann ein beherrschender zug der statistischen mechanik besteht darin daß die zahl der mikroskopischen freiheitsgrade im wesentlichen gegeben durch die zahl n der im system enthaltenen atome so ungeheuer groß ist obwohl mit wachsendem n unsere kenntnis von der mikroskopischen struktur immer geringer wird werden dennoch die oben angedeuteten wahrscheinlichkeitsaus sagen über makroskopische größen um so schärfer je größer n ist in dem sinne daß wir im limes n 00 wieder zu sicheren aussagen gelangen dieser zug der wahrscheinlichkeitsrechnung ist so charakteristisch daß wir ihn gleich jetzt an einem primitiven beispiel erläutern wollen ein gas bestehe aus n molekülen welche sich unabhängig voneinander in einem volumen v bewegen ideales gas wir grenzen innerhalb v ein dagegen kleines volumen v ab und interessieren uns für die zahl n der molekiile welche sich in v aufhalten nennen wir und 1 p q p so sind p bzw q die wahrscheinlichkeiten dafür ein hervorgehobenes molekül innerhalb bzw außerhalb v zu finden

solid state physics

keine ausführliche beschreibung für technische thermodynamik verfügbar

discussing the design and optimum use of thermal analysis instrumentation for materials

property measurement this work details how the instruments work what they measure potential pitfalls and the fitting of experimental results to theoretical models it presents a tutorial on writing computer programs for data manipulation advanced thermoanalytical methods and case studies

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