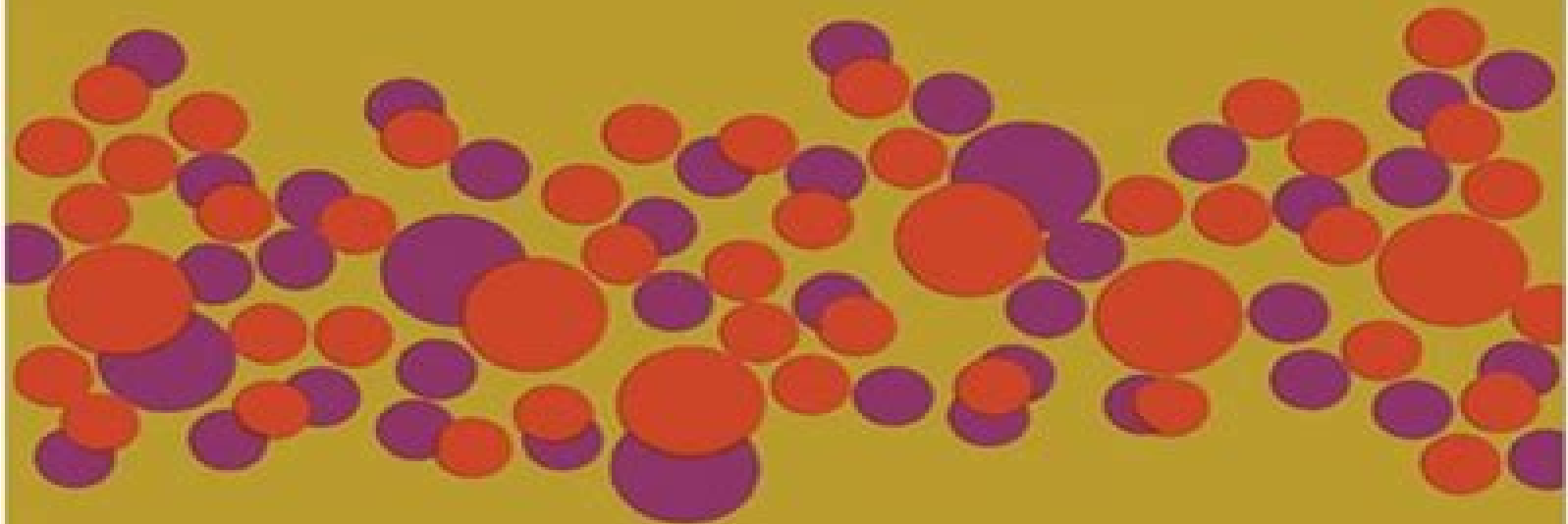


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Frontiers and Progress of Current Soft Matter Research Xiang-Yang Liu, 2020-12-14 This book covers some fundamental aspects and frontiers in non equilibrium physics and soft matter research Apart from the basic knowledge on nonlinear statistic physics dynamics computer simulations and main approaches and emerging systems in soft matter research particular attention is devoted to new conceptual flexible functional materials and the enriching areas such as silk meso molecular materials molecular gels

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Statistical Mechanics And The Physics Of Many-particle Model Systems Alexander Leonidovich Kuzemsky, 2017-02-24 The book is devoted to the study of the correlation effects in many particle systems It presents the advanced methods of quantum statistical mechanics equilibrium and nonequilibrium and shows their effectiveness and operational ability in applications to problems of quantum solid state theory quantum theory of magnetism and the kinetic theory The book includes description of the fundamental concepts and techniques of analysis following the approach of N N Bogoliubov's school including recent developments It provides an overview that introduces the main notions of quantum many particle physics with the emphasis on concepts and models This book combines the features of textbook and research monograph For many topics the aim is to start from the beginning and to guide the reader to the threshold of advanced researches Many chapters include also additional information and discuss many complex research areas which are not often discussed in other places The book is useful for established researchers to organize and present the advanced material disseminated in the literature The book contains also an extensive bibliography The book serves undergraduate graduate and postgraduate students as well as researchers who have had prior experience with the subject matter at a more elementary level or have used other many particle techniques

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An Introduction to the Statistical Theory of Classical Simple Dense Fluids G.H.A. Cole, 2014-06-28 An Introduction to the Statistical Theory of Classical Simple Dense Fluids covers certain aspects of the study of dense fluids based on the analysis of the correlation effects between representative small groupings of molecules The book starts by discussing empirical considerations including the physical characteristics of fluids measured molecular spatial distribution scattering by a continuous medium the radial distribution function the mean potential and the molecular motion in liquids The text describes the application of the theories to the description of dense fluids i.e. interparticle force classical particle trajectories and the Liouville Theorem and the deduction of expressions for the fluid thermodynamic functions The theory of equilibrium short range order by using the concept of closure approximation or total correlation some numerical consequences of the equilibrium theory and irreversibility are also looked into The book further tackles the kinetic derivation of the Maxwell Boltzmann MB equation the statistical derivation of the MB equation the movement to equilibrium gas in a steady state and viscosity and thermal conductivity The text also discusses non equilibrium liquids Physicists chemists and engineers will find the book invaluable

Molecular Dynamics Ben Leimkuhler, Charles Matthews, 2015-05-18 This book describes the mathematical underpinnings of algorithms used for molecular dynamics simulation including both deterministic and stochastic numerical methods Molecular dynamics is one of the most versatile and powerful methods of modern computational science and engineering and is used widely in chemistry physics materials science and biology Understanding the foundations of numerical methods means knowing how to select the best one for a given problem from the wide range of techniques on offer and how to create new efficient methods to address particular challenges as they arise in complex applications Aimed at a broad audience this book presents the basic theory of Hamiltonian mechanics and stochastic differential equations as well as topics including symplectic numerical methods the handling of constraints and rigid bodies the efficient treatment of Langevin dynamics thermostats to control the molecular ensemble multiple time stepping and the dissipative particle dynamics method

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