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this last volume of the berkeley physics course is devoted to the study of large scale systems consisting of many atoms or molecules thus it provides an introduction to the subjects of statistical mechanics kinetic theory thermo dynamics and heat the approach is not patterned upon the historical development of these subjects and does not proceed along conventional lines the aim has been to adopt a modern point of view and to show in as systematic and simple way as possible how the basic notions of atomic theory lead to a conceptual framework capable of describing and predicting the properties of macroscopic systems

college physics course for students majoring in science and engineering

this book is the second edition of an excellent undergraduate level overview of classical

and modern physics intended for students of physics and related subjects and also perfectly suited for the education of physics teachers the twelve chapter book begins with newton s laws of motion and subsequently covers topics such as thermodynamics and statistical physics electrodynamics special and general relativity quantum mechanics and cosmology the standard model and quantum chromodynamics the writing is lucid and the theoretical discussions are easy to follow for anyone comfortable with standard mathematics an important addition in this second edition is a set of exercises and problems distributed throughout the book some of the problems aim to complement the text others to provide readers with additional useful tools for tackling new or more advanced topics furthermore new topics have been added in several chapters for example the discovery of extra solar planets from the wobble of their mother stars a discussion of the landauer principle relating information erasure to an increase of entropy quantum logic first order quantum corrections to the ideal gas equation of state due to the fermi dirac and bose einstein statistics both gravitational lensing and the time correction in geo positioning satellites are explained as theoretical applications of special and general relativity the discovery of gravitational waves one of the most important achievements of physical sciences is presented as well professional scientists teachers and researchers will also want to have this book on their bookshelves as it provides an excellent refresher on a wide range of topics and serves as an ideal starting point for expanding one s knowledge of new or unfamiliar fields readers of this book will not only learn much about physics they will also learn to love it

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