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includes part 1 number 2 books and pamphlets including serials and contributions to periodicals july december

a completely revised edition that combines a comprehensive coverage of statistical and thermal physics with enhanced computational tools accessibility and active learning activities to meet the needs of today s students and educators this revised and expanded edition of statistical and thermal physics introduces students to the essential ideas and techniques used in many areas of contemporary physics ready to run programs help make the many abstract concepts concrete the text requires only a background in introductory mechanics and some basic ideas of quantum theory discussing material typically found in undergraduate texts as well as topics such as fluids critical phenomena and computational techniques which serve as a natural bridge to graduate study completely revised to be more accessible to students encourages active reading with guided problems tied to the text updated open source programs available in java python and javascript integrates monte carlo and molecular dynamics simulations and other numerical techniques self contained

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during the last decade various powerful experimental tools have been developed such as small angle x ray and neutron scattering x ray and neutron reflection from interfaces neutron spin echo spectroscopy and quasi elastic multiple light scattering and large scale computer simulations due to the rapid progress brought about by these techniques one witnesses a resurgence of interest in the physicochemical properties of colloids surfactants and macromolecules in solution although these disciplines have a long history they are at present rapidly transforming into a new interdisciplinary research area generally known as complex liquids or soft condensed matter physics names that reflect the considerable involvement of the chemical and condensed matter physicists this book is based on lectures given at a nato asi held in the summer of 1991 and discusses these new developments both in theory and experiment it constitutes the most up to date and comprehensive summary of the entire field

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