



Simple Dense Fluids

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Simple Dense Fluids is a nine-chapter text that explores the chemistry and physics of simple fluid systems. Simple systems primarily include the noble gases, the homonuclear diatomic molecules, and a select group of some polyatomic but spherically symmetrical molecules.

The opening chapter describes the change of thermodynamic functions along the saturation line and how these functions can best be obtained from sets of measurements that are often in conflict, with an emphasis on the functions of three simple liquids: argon, nitrogen, and oxygen. The following chapter outlines the basic thermodynamic and statistical mechanical ideas that have been applied to the liquid-vapor interface, followed by a summary of surface tension data of simple fluids. Considerable chapters are devoted to X-ray, light, and neutron scattering measurements on simple dense fluids. This book further discusses the use of electromagnetic data, especially the dielectric constant and refractive index, in the interpretation of molecular interactions and molecular structure. The available experimental data on several nonpolar liquids and liquid mixtures are also provided. The final chapters survey the nuclear relaxation and spectroscopic data in simple liquids. These chapters also present experimental data relevant to transport phenomena in simple fluids. Workers and researchers in the field of simple dense fluids will find this book of great value.

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