

Fundamental aspects of plasma chemical physics : thermodynamics

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Abstrak

This book develops basic and advanced concepts of plasma thermodynamics from both classical and statistical points of view. Particular attention is devoted to the problem of the divergence of the partition function of atomic species and the state-to-state approach for calculating the partition function of diatomic and polyatomic molecules. The limit of ideal gas approximation is also discussed, by introducing Debye-Huckel and virial corrections. Throughout the book, worked examples are given in order to clarify concepts and mathematical approaches.