



Fundamental Aspects of Plasma Chemical Physics: Thermodynamics: 66 (Springer Series on Atomic, Optical, and Plasma Physics)

Mario Capitelli, Gianpiero Colonna, Antonio D'Angola

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Fundamental Aspects of Plasma Chemical Physics - Thermodynamics develops basic and advanced concepts of plasma thermodynamics from both classical and statistical points of view.

After a refreshment of classical thermodynamics applied to the dissociation and ionization regimes, the book invites the reader to discover the role of electronic excitation in affecting the properties of plasmas, a topic often overlooked by the thermal plasma community.

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.

This book is a first of a series of three books to be published by the authors on fundamental aspects of plasma chemical physics. The next books will discuss transport and kinetics.

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