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Particle)"; "C. Assumptions"; "IX. Heat of Reaction"; "X. Relation Between Particle Number and Gas Pressure"; "XI. Formulas for the Rate Constants of Specific Processes"; "A. Rate Constant for Arbitrary Energy Dependence of the Process Cross Section"
"B. Formulas for Cross Sections and Rate Constants""References";
"Chapter 2 Elastic Collisions in Gases and Plasmas (T Models)"; "I. Elastic Collisions of Neutral Particles ($X + Y \rightarrow X + Y$)"; "A. Hard-Sphere Model (T.1)"; "B. Repulsive Power-Law Potential Model (T.2)"; "C. Hard-Sphere Model with Variable Diameter (T.3)"; "D. Model Based on Lennard-Jones Potential (T.4)"; "E. Model Based on Born-Mayer Potential (T.5)"; "F. Model of Attracting Particles (T.6)"; "II. Elastic Collisions Involving Charged Particles"
"A. Effective Radius Approximation for Electron-Atom and Electron-Molecule Collisions (T.7)"; "B. Classical Approximation for Electron-Atom and Electron-Molecule Collisions (T.8)"; "C. Born Approximation for Electron-Atom and Electron-Molecule Collisions (T.9)"; "D. Model of Electron Scattering by Molecule with High Dipole Moment (T.10)"; "E. Classical Approximation for Ion-Atom and Ion-Molecule Collisions (T.11)"; "F. Model Based on the Born-Mayer Repulsive Potential for Ion Collisions with Neutral Particles (T.12)"; "G. Model Based on the Shielded Coulomb Potential (T.13)"; "References"
"Chapter 3 Rotational Energy Exchange (R Models)"
