

Abstract Submitted  
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**Compilation of Electron-Neutral Collision Data in Gases** GORUR GOVINDA RAJU, University of Windsor — Data on electron-neutral interaction are required and indispensable in several areas of research including Power systems, Plasma applications, material scientists, Chemistry, and even biological processes. The data are generally classified under cross sections for various elastic and inelastic processes, swarm properties including transport parameters and growth coefficients. A large number of reviews and compilations for a limited number of gases have been previously published in the literature by other researchers. In this presentation the author has compiled, over a period of twenty years or so, data for most of the molecules, if not for all, studied for the electron energy range (0-1000 eV) For each target particle about sixteen quantities have been classified to the extent that data are available, provided in tabular and graphical formats. The data are updated on a continuous basis till publication time.

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