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Physics of fully ionized gases - CERN Document Server

A comprehensive textbook and reference for the study of the physics of ionized gases. The intent of this book is to provide deep physical insight into the behavior of gases containing atoms and molecules from which one or more electrons have been ionized. The study of these so-called plasmas begins with an overview of plasmas as they are found in nature and created in the laboratory.

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A particular case of fully ionizes gases are very hot thermonuclear plasmas, such as plasmas artificially produced in nuclear explosions or naturally formed in our Sun and all stars in the universe. Stars contain largely hydrogen and helium gases, that are fully ionized into electrons, protons (H + ) and helium ions (He ++ ).

Degree of ionization - Wikipedia

It consists of a gas of ions – atoms which have some of their orbital electrons removed – and free electrons. Plasma can be artificially generated by heating a neutral gas or subjecting it to a strong electromagnetic field to the point where an ionized gaseous substance becomes increasingly electrically conductive. The resulting charged ions and electrons become influenced by long-range electromagnetic fields, making the plasma dynamics more sensitive to these fields than a neutral gas.

Plasma (physics) - Wikipedia

In a fully ionized gas, no internal degrees of freedom need be considered, and for compression in one dimension *m* = 1, *γ* = 3, and we arrive at equation (1-29). If the particle velocities were randomized by collisions during the compression, then *γ* should be set equal to its usual value of 5/3 in equation (1-30).

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