

# Download Fundamentals Of Plasma Physics

This rigorous explanation of plasmas is relevant to diverse plasma applications such as controlled fusion, astrophysical plasmas, solar physics, magnetospheric plasmas, and plasma thrusters. Fundamentals of Plasma Physics is a general introduction designed to present a comprehensive, logical and unified treatment of the fundamentals of plasma physics based on statistical kinetic theory, with applications to a variety of important plasma phenomena. History. The word plasma comes from Ancient Greek *πλάσμα*, meaning 'moldable substance' or 'jelly', and describes the behaviour of the Ionized atomic nuclei and the electrons within the surrounding region of the plasma. The primary objective of this book is to present and develop the fundamentals and principal applications of plasma physics, with an emphasis on what is usually called high-temperature plasma physics where the plasma is nearly fully ionized with nearly negligible effects of neutral particles on the plasma behavior.