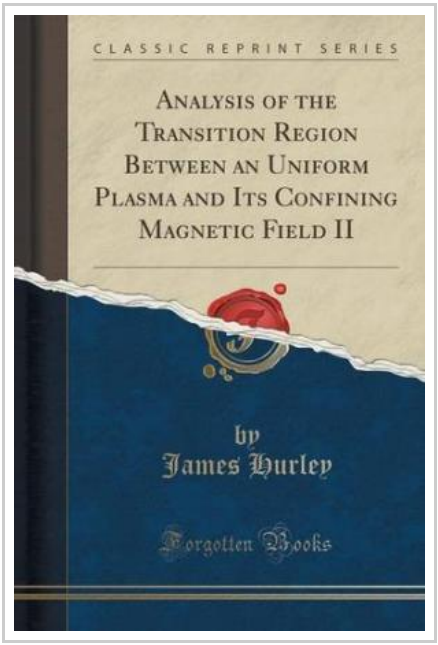

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Analysis of the Transition Region Between an Uniform Plasma and Its Confining Magnetic Field II (Classic Reprint)

By James Hurley

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Analysis of the Transition Region Between an Uniform Plasma and Its Confining Magnetic Field II The problem considered here is that of the transition region separating a uniform plasma from its confining magnetic field. The geometry chosen is one-dimensional. The magnetic field profile within the boundary layer is determined by the current distribution i.e., by the paths of the ions and electrons. The paths of these particles on the other hand are determined by the fields in which they move. An exact, self-consistent solution of Maxwell s equations and the equations of motion of the particles is obtained. A detailed analysis is made for a hydrogen plasma. These results are then compared with those of a plasma whose positive constituent is the proton and whose negative constituent has a mass which approaches zero and a speed which approaches infinity in such a way that the energy remains finite. The transition layer thickness for these two plasma s agree to one part in 10. It is shown that this latter case is equivalent to treating the...

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