

# JOURNAL OF PLASMA AND FUSION RESEARCH

*The Journal of the Japan Society of Plasma Science and Nuclear Fusion Research*  
Vol. 86, No.3, March 2010

## Special Topic Article

Lecture Note

R&D Activities for 30 Years on Handling Technology of a Large Amount of Tritium and Future Subjects	
2. Accomplishments of the Large Amount of Tritium Handling Technology (1)	
— Accumulation of the Safety Operation Experiences of Tritium Handling Facilities and the Related Safety Studies —	
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Cover

The TM (Transverse Magnetic) and TE (Transverse Electric) surface waves in plasmas with axially non-uniform density profiles have been studied. The wave equations are derived from Maxwell's equations for electromagnetic wave fields  $\mathbf{E}$  and  $\mathbf{B}$  and induced current density  $\mathbf{J}$ . The wave equations are assumed to have separable form in axial ( $z$ ) and radial ( $r, \theta$ ) components. The figures show the profiles of the radial function  $\phi(r, \theta)$  for  $(m, n) = (1, 4)$  and  $(8, 1)$ . (Hitoshi HOJO *et al.*, Plasma and Fusion Research Vol.5, 006 (2010) <http://www.jspf.or.jp/PFR/>)

Published Monthly by

Published Monthly by  
The Japan Society of Plasma Science and Nuclear Fusion Research

3-1-1 Uchiyama, Chikusa-ku, Nagoya 464-0075, Japan

3-1-1, Uchiyama, Chikusa-ku, Nagoya 464-0075, Japan  
Tel 052-735-3185 Fax 052-735-3485 E-mail: plasma@ispf.or.jp URL: <http://www.ispf.or.jp/>