



Optica Applicata 2008(Vol.38), No.2, pp. 365-373

Net emission coefficients of low temperature thermal iron-helium plasma

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Keywords

net emission coefficients, iron-helium plasma

Abstract

Net emission coefficients of low temperature thermal iron-helium plasma mixture at atmospheric pressure are presented. The calculations are made assuming the plasma is in the local thermodynamic equilibrium at a pressure of 0.1 MPa. The results are presented for several values of helium mass fraction in the mixture (between 0 and 1), for a temperature range 3000 -25000 K and three characteristic plasma dimensions; 0 - corresponding to the optically thin case, and 1 mm and 10 mm. The values of net emission coefficients allow the estimations of total radiation losses in iron-helium plasmas.



285.4 kB

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