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# ATOMIC DATA AND SPECTRAL LINE INTENSITIES FOR NE III



Atomic Data and Spectral Line Intensities for Ne III

NASA Technical Reports Server (NTRS), et al., A. K. Bhatia

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 32 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. Electron impact collision strengths, energy levels, oscillator strengths and spontaneous radiative decay rates are calculated for Ne III. The configurations used are  $2s(\text{sup } 2) 2p(\text{sup } 4)$ ,  $2s2p(\text{sup } 5)$ ,  $2s(\text{sup } 2) 2p(\text{sup } 3)3s$ , and  $2s(\text{sup } 2)3p(\text{sup } 3)3d$  giving rise to 57 fine-structure levels in intermediate coupling. Collision strengths are calculated at five incident energies, 5, 10, 15, 20, and 25 Ry. Excitation...

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