Spectral Data for Highly Ionized Atoms: Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Kr, and Mo (Jpcrd Monograph, 8)

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These spectroscopic data tables for the spectra of highly ionized heavy atoms provide a resource for researchers who need detailed spectroscopic information on energy levels, wavelengths, ionization energies, and oscillator strengths. Critically evaluated data for these spectroscopic quantities, both observed and calculated, are tabulated for the elements Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Kr and Mo. The tables include data for all stages of ionization from Ca-like through H-like spectra, except for Kr and Mo, which start at Ge-like and Rb-like, respectively. Several hundred transitions are covered for each spectrum. The tables are arranged in order of decreasing wavelengths, and lines belonging to the same multiplet are grouped together. Forbidden lines, mainly magnetic dipole (M1) and electric quadrupole (E2) transitions are also included and are identified as such. A unified finding list, in which lines are ordered according to wavelengths, contains all the tabulated transitions. Short reviews on the line identifications and wavelength measurements are given for each stage of ionization. The general introduction contains a discussion on the method of evaluation and some background on the compilations.

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