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Energy levels and radiative rates for transitions in Ti VI[1] KANTI AGGARWAL, FRANCIS KEENAN, Queen's University Belfast, Northern Ireland, UK, ALFRED Z. MSEZANE, Clark Atlanta University, Atlanta GA — Energies for 568 levels among the n=3+$3p^6 4l$+3s3p$^5 4l$ configurations of Ti VI are calculated using the GRASP (General-purpose Relativistic Atomic Structure Program) code, which is based on the multi-configuration Dirac-Fock (MCDF) method. Additionally, radiative rates are calculated for all types of transitions, namely electric dipole (E1), electric quadrupole (E2), magnetic dipole (M1), and magnetic quadrupole (M2). Lifetimes are also calculated for all the levels and extensive comparisons are made with the earlier available data as well as with other parallel calculations from the FAC (Flexible Atomic Code). Discrepancies for several levels with the earlier calculations of Mohan et al, (ADNDT 93 105 (2007)) are highlighted.

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