



Electronic Quenching of the A(0+ U) State of Bi2 (Paperback)

By Joseph L Cox

Biblioscholar, United States, 2012. Paperback. Condition: New. Language: English . This book usually ship within 10-15 business days and we will endeavor to dispatch orders quicker than this where possible. Brand New Book. Temporally-resolved laser induced fluorescence of high vibrational levels in Bi2 A(u 0) above and below the predissociation limit of $v = 22$ were investigated by observing total fluorescence from a wavelength tunable, pulsed dye laser. Electronic quenching of Bi2 A(u 0) by five collision partners (Ne, Ar, Kr, Xe, N2) was examined for four vibrational levels ($v = 22, 23, 24, 25$). Electronic quenching by a sixth collision partner (He) was examined for eight vibrational levels ($v = 18$ through 25). The quenching from stable vibrational levels ($v = 22$) was independent of vibrational quantum number. A significant increase in quenching occurs for the predissociated level $v = 23$. Electronic quenching transfer rates ranged from 227.3 to $850.5 \times 10^{-13} \text{ cm}^3 \text{ molec}^{-1} \text{ sec}^{-1}$ for $v = 22$ and from 741.2 to $1570 \times 10^{-13} \text{ cm}^3 \text{ molec}^{-1} \text{ sec}^{-1}$ for $v = 23$, and are very nearly gas kinetic for $v = 23$. Electronic quenching of higher vibrational levels ($v > 23$) was not temporally resolvable by the experimental apparatus.



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