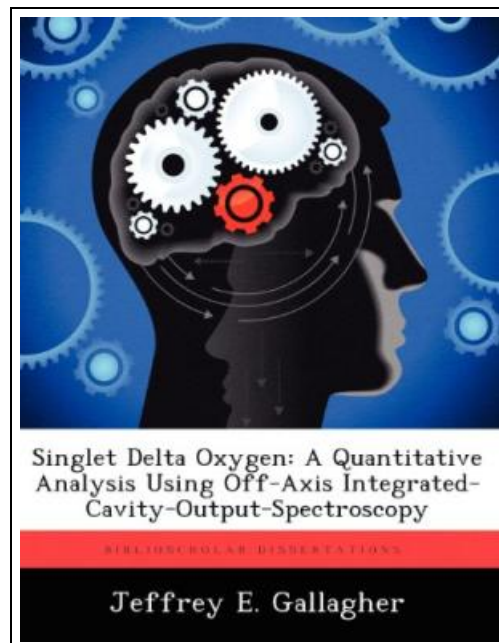


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Biblioscholar, United States, 2012. Paperback. Condition: New. Language: English . This book usually ship within 10-15 business days and we will endeavor to dispatch orders quicker than this where possible. Brand New Book. A new spectroscopic technique applicable to the detection of ultra-weak and forbidden molecular transitions is presented. The method is based on off-axis integrated-cavity-output spectroscopy (ICOS) and has been applied to the detection of singlet (a^1g) oxygen in the (1,0) band of the electric-quadrupole allowed Noxon system ($b^1 + g^1$) of oxygen. The details of the method as well as spectroscopic data confirming the absolute line positions of twenty-one lines in the (1,0) band of the $b^1 + g^1$ have been completed to within 0.004 cm^{-1} . A Boltzmann analysis verified previously calculated and unproven integrated cross sections for each of the lines. Ten lines were also pressure broadened from 25 Torr to 100 Torr, and pressure broadening coefficients were determined from $-p = 3.61 \pm 0.6 \text{ cm}^{-1}\text{torr}$ to $5.81 \pm 0.6 \text{ cm}^{-1}\text{torr}$. These coefficients illustrate that rotationally-inelastic collisions are the dominant mechanism in molecular pressure broadening. The singlet oxygen was generated in a microwave plasma and the afterglow passed through an off-axis ICOS measurement system consisting of an 82 cm long, high-finesse ($F = 248000$) optical cavity. The mirror reflectivity, R , was determined by performing a cavity ringdown measurement and observing ringdown times of 220 ns in a range from 1494 nm to 1512 nm.



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