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## TUNABLE DIODE LASER ABSORPTION SPECTROSCOPY VERIFICATION ANALYSIS FOR USE IN THE COMBUSTION OPTIMIZATION AND ANALYSIS LASER LABORATORY



Tunable Diode Laser Absorption Spectroscopy Verification Analysis for Use in the Combustion Optimization and Analysis Laser Laboratory

Christina R. Serianne

BiblioScholar. Paperback. Condition: New. 128 pages. Dimensions: 9.7in x 7.4in x 0.3in. The AFIT Combustion Optimization and Analysis Laser (COAL) laboratory has state-of-the-art laser diagnostic capability for combustion process. The research for this thesis served to enhance the COAL labs capability. Currently, there are no known commercially available tunable diode lasers that produce Ultra-Violet radiation required for this analysis. Sum-frequency generation at 313.5 nm was utilized for high speed OH absorption and temperature measurements at a rate of 2kHz. The...

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