OPTICAL SPECTROSCOPIC TECHNIQUES FOR ARMY APPLICATIONS

KEVIN L. McNESBY, R. R. SKAGGS, R. G. DANIEL and A. W. MIZIOLEK, U. S. Army Research Laboratory, Aberdeen Proving Ground MD.

Applications of optical spectroscopy to Army needs are discussed. These applications include tunable diode laser-based sensing of hazardous gases, explosives characterization using Raman spectroscopy and using laser induced breakdown spectroscopy, chemical/biological agent detection using infrared spectroscopy, and spectral characterization of non-thermal plasmas.