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13. ABSTRACT (Maximum 200 words) TOPICAL MEETING ON EXCIMER LASERS is primarily devoted to ultraviolet excimer laser systems and their applications. Specific areas of topical interest are: excimer laser system development, linewidth, frequency, and pulse duration control of excimer systems, spectroscopy in the VUV and XUV, nonlinear processes including short wavelength generation via harmonic generation, sum frequency mixing and Raman scattering with excimer systems, photochemistry conducted with excimer laser systems, excimer pumped laser systems, diagnostics and processing of solid materials, laser produced plasmas and molecular biology. TOPICAL MEETING ON OPTICAL TECHNIQUES FOR REMOTE PROBING OF THE ATMOSPHERE focussed on advanced optical techniques and data processing for remote sensing at UV, visible and infrared wavelengths with factors common to all techniques highlighted. Techniques for probing chemical species or atmospheric parameters such a temperature, humidity, turbulence and wind using passive or active sources, and coherent or incoherent detection were presented. Topics included: atmospheric optical propagation effects, laser remote sensing techniques, passive/spectrometric remote sensing techniques, and systems analysis.				
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