

Optics in atmospheric propagation and adaptive systems

- 27-28 September 1995, Paris, France

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However, for ground-to-ground applications, the effects of turbulence on both passive and active systems are more severe. In the upper atmosphere non-equilibrium effects are important. The solid dots show the relation between the refracted ray directions represented by the vertical axis and the geometric ray directions represented by the horizontal axis.

Reflection of a nonstationary beam of light from an absorbing medium in the case of grazing incidence

By considering incident light in the form of pure states of polarization, we are able to show that a particular Mueller matrix decomposition is advantageous for analysis of the physical mechanisms of



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depolarization of light propagating through linear media.

Reflection of a nonstationary beam of light from an absorbing medium in the case of grazing incidence

The turbulence anisoplanatism effects are emphasized.

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It is now possible to import externally defined targets into EOSTAR, e. In a homogeneous medium with a constant refractive index, these ray trajectories will be straight lines.

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The test bed described is unique in two ways: 1 it uses a Hamamatsu parallel aligned liquid crystal phase modulator as a pupil plane phase screen to generate degraded input wavefronts for testing the wavefront control systems, and 2 it may be used to evaluate a variety of wavefront sensor, corrector, and control elements without changing the layout or realigning the optical components that comprise the basic test bed. The Air Force Phillips Laboratory is testing the feasibility of developing a long-path, CO₂ laser-based DIAL system for remote sensing applications from an airborne platform. These refractive index variations play a crucial role in atmospheric refraction and turbulence effects.

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Pathintegrated transmission and path radiance are computed for a particular target in the scene. Gonglewski, Karin Stein, Proceedings of SPIE Vol. The middle panel shows the atmospheric vertical blur profile along the paths between the camera indicated by the square at zero range in the left panel and the position of the cursor dot.

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The accuracy of the trajectories depends on the step size in the propagation direction and the sample interval of the refractive index vertical profile.

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Particular effects occurring during the reconstruction process are also shown. Both heterodyne and direct detection techniques are being compared with respect to radiometric performance and signal statistics.

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