

86 :	:	
<p>1960¹</p> <p>5×10^{14} Hz</p> <p>10^5</p> <p>0.16 dB/m</p> <p>0.14</p> <p>4 percent /km</p> <p>1000 dB/m</p> <p>dB/m</p> <p>1960</p> <p>()³ ²</p> <p>4</p>	<p>:</p> <p>:</p> <p>:</p> <p>82102809</p> <p>:</p> <p>:</p> <p>:</p> <p>:</p> <p>:</p>	

¹ Coherent
² Short distance

FSO⁵

Advanced Ritchey-Chrétien
ZEMAX

Abstract

In this paper, receiver's optics in all optical Free Space Optical links has been considered including alignment of receiver and transmitter and its sensitivity to mechanical misalignments. Geometrical Optics, Wave theory and fiber optics theory are then involved to analyze the coupled power from receiver telescope to fiber optic.

Various telescopes such as "Newtonian Telescope", "Classic Cassegrain", and "Advanced Ritchey-Chrétien" have been simulated and obtained results are analyzed.

³ Earth based

⁴ Long distance

⁵ All Optical