# Abstracts

## Macroscopic Single-Mode Waveguide for the Construction of Optical Components

*D.W. Wilmot. "Macroscopic Single-Mode Waveguide for the Construction of Optical Components." 1964 PTGMTT International Symposium Program and Digest 64.1 (1964 [MWSYM]): 115-120.*

The contemplated application of laser radiation include optical systems which are similar to present microwave radar and communication systems. However, to provide the degree of sophistication presently obtainable at microwave frequencies, it is necessary to have high-performance optical components. One approach to the design of laser systems is to employ waveguide-type components, analogous to those presently available at microwave frequencies. This paper discusses single-mode, macroscopic, optical wave guide which is proposed as a construction medium for the fabrication of optical components. The term "macroscopic" implies that the waveguide dimensions are at least an order of magnitude greater than the wavelength of light, which is considered sufficiently large to permit fabrication with reasonable tolerances.

❑ Return to main document.