

Photorefractive Fiber and Crystal Devices:
Materials, Optical Properties, and Applications VII, and Optical Data Storage
Proc. SPIE., Volume 4459, Pages 192-196
SPIE--The International Society for Optical Engineering

Volume Holographic Interconnection Using Random Phase Encoding

Su, Wei-Chia; Sun, Ching-Cherng

Abstract

Optical interconnections based on random phase encoding using a ground glass in a volume hologram have been presented. In the system, a crystal plays the role of interconnector, which translates Chinese words into English words. The stimulation results and experimental results of the translation system are demonstrated.