

# PRINCIPLE AND APPLICATIONS OF LIMITED DIFFRACTION BEAMS

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Limited diffraction beams are new beamforming techniques developed recently. These beams have a large depth of field and have potential applications in medical imaging, tissue identification, nondestructive evaluation (NDE) of industrial materials, Doppler velocity measurement, high-speed private telecommunications, as well as other physics-related areas such as electromagnetics, and optics. This talk will present the principles of these novel beams and their applications. New imaging methods such as the Fourier method will be presented. Experiment results will be shown.

10/11/98

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**7th INTERNATIONAL WORKSHOP  
ON  
MODERN ACOUSTICS  
ULTRASONICS**

**CONFERENCE DIGEST**

**October 11-14, 1998**

**Nanjing University  
Nanjing, China**