

제목: 광펄스로 생성된 초음파에 대한 역전파 방법

A method of back-propagating the acoustic waves induced by an optical pulse

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초록:

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A method of back-propagating the acoustic waves induced by an optical pulse

It is well known that an optical pulse can generate acoustic waves with the photo-acoustic phenomenon. Usually, the acoustic waves are detected at the surface of a specimen. However, the sources of the acoustic waves are located or distributed within the volume of the specimen. Therefore, to localize or image the acoustic sources it is necessary to back-propagate the acoustic waves measured at the surface. In this work, we have devised the method of back-propagating a single sheet of 2D acoustic waves, simultaneously measured at the surface, into the 3D volume of the specimen. .