

## Hologram Matlab Code

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### Hologram Matlab Code

I have to write a Matlab code for my experiments which could generate a digital hologram. can anyone help me with the code.

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techniques for producing computer-generated holograms. Extensive MATLAB code is integrated with the text throughout and is available for download online, illustrating both theoretical results and practical considerations such as aliasing, zero padding, and sampling. Accompanied by end-of-chapter problems, and an online solutions manual

### INTRODUCTION TO MODERN DIGITAL HOLOGRAPHY

it is loaded into MATLAB program using the „imread“ command. The object (HOLOGRAM) shown in the Figure-2 is used for converting into a matrix. Figure 2: Image for Hologram

### Fourier Optics and Computer Generated Hologram

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Examples of Digital Hologram Reconstruction Programs This appendix offers some programs for the calculation of diffraction and the reconstruction of digital holograms. These programs were written in the MATLAB language. This software allows scientific calculations to be carried out in a very

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### Matlab Code Fresnel Diffraction

The generation of nondiffracting beams using inexpensive computer-generated holograms “ Comparison of Bessel and Gaussian beams A copy of our Matlab code is. This fundamental (or TEM 00) transverse gaussian mode describes the intended output of most (but not all) lasers, as such a beam can be focused into the most concentrated spot. the beam ...

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