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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.

how to generate a digital hologram. - MATLAB Answers ...

This MATLAB code performs reconstruction of off-axis hologram with phase unwrapping of the

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reconstructed phase distribution. For details please see "Off-axis and inline electron holography: Experimental comparison", Ultramicroscopy 110, 472 - 482 (2010), doi: 10.1016/j.ultramic.2009.12.007

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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

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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

```
%----Calculationofthe hologram H=abs(Ur+Uf).^2; % 8-bitdigitization lmax=max(max(H));  
lh=uint8(255*H/lmax);
```

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Examples of Digital Hologram Reconstruction Programs

In my model the initial plane wave is modelled as Planewave=1 as on the $z=0$ plane there will be a constant phase and amplitude. So the hologram is given by. $Hologram = \text{Mod}(O+R) = \text{Mod}(O + 1)$ where O =the object field which has both amplitude and phase.

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The Matlab code is easy to follow and provided me with some new methods to augment my own hologram reconstruction code. I will use this book to teach a graduate course in introduction to digital holography. Highly recommended, and better than the well known book by Schnars and Juepner. ...

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