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### Hologram Matlab Code

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

Reconstruction of off-axis hologram MATLAB & Simulink

This MATLAB code allows simulation and iterative twin image free reconstruction of an inline (in-line) hologram recorded with plane waves. Citation for this code/algorithm or any of its parts: Tatiana Latychevskaia and Hans-Werner Fink, "Solution to the Twin Image Problem in Holography", Physical Review Letters 98, 233901 (2007)

Iterative twin image free reconstruction of in-line hologram

This MATLAB code allows simulation and reconstruction of inline (in-line, Gabor) holograms recorded with plane waves.

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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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Holography with spherical waves ... MATLAB & Simulink

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

~~Examples of Digital Hologram Reconstruction Programs~~

Matlab code itself is not a problem. But it depends on what exactly you are doing. If you are asking if there is a special package in Matlab which incorporates different methods of digital...

~~Can anyone provide a MATLAB code for digital holography?~~

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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This MATLAB code generates the figures in the manuscript entitled "Bounds and Conditions for Compressive Digital Holography". The MATLAB code is freely available for download here. Download! For more information, you can contact Stijn Bettens (sbettens(AT)etrovub.be). Release: March 2017

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Code 119 Appendix 1.2: Matlab 1/e2 Divergence and Roundness Code 123 Appendix 2: UoG Fourier Hologram Sim Matlab Code 127 Appendix 3: Angular Spectrum Hologram Reconstruction Matlab Code 129

~~Humphreys, Mark (2019) imaging system.~~

DESCRIPTION. Holography is the only truly three-dimensional imaging method available, and MATLAB has become the programming language of choice for engineering and physics students. Whereas most books solely address the theory behind these 3D imaging techniques, this monograph concentrates on the exact code needed to perform complex mathematical and physical operations.

~~Analog and Digital Holography with MATLAB~~

MATLAB was used for computer simulation. The algorithm of the MATLAB program is discussed. Using this technique, computer generated holograms can be easily generated in a PC even at undergraduate...

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