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

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

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

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

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This MATLAB code allows simulation and reconstruction of inline (in-line) holograms recorded with spherical waves, in paraxial approximation Citation for this code/algorithm or any of its parts: Tatiana Latychevskaia and Hans-Werner Fink "Practical algorithms for simulation and reconstruction of digital in-line holograms", Computer Generated Hologram MATLAB Search and download Computer Generated Hologram MATLAB open source project / source codes from CodeForge.com

```
%-----Calculationofthe
hologram H = a b -
s(Ur+Uf).^2; % 8-bitdigi-
tization lmax = max(-
max(H)); lh=uint8(255*H/l-
max);
```

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

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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

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%-----Calculation of the hologram
H=abs(Ur+Uf).^2; % 8-bit digitization
Imax=max(max(H));
Ih=uint8(255*H/Imax);

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...

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