
Subject: Re: Convolution, IDL & Numerical Recipes
Posted by [R.G. Stockwell](#) on Fri, 01 Nov 2002 14:09:50 GMT
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David Fanning wrote:

- > Gonzales and Woods seem to suggest that "convolution" is a
- > frequency domain concept, and can only be loosely applied in
- > the linear spatial sense. Could this be part of the problem?

All operations performed in the time domain have an analogous operation in the frequency domain. For the fourier transform, as with all orthogonal transformations. only change the basis functions on to which your data is projected, and does not change the data.

Just note that freq domain techniques do circular convolution, time domain does not necessarily.

Cheers,
bob stockwell

- > I'm curious about this because I have been trying to
 - > duplicate some of the results in the book (they apparently
 - > use MatLab) and I am having rather more trouble than
 - > I had hoped to. :-(
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