
Subject: Re: Empirical Orthogonal Function Analysis in IDL
Posted by [R.G. Stockwell](#) on Wed, 30 Apr 2008 15:50:08 GMT
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"David Fanning" <news@dfanning.com> wrote in message
news:MPG.22823fea344684119896f4@news.frii.com...
> d.poreh@gmail.com writes:
>
>> You mean something like averaging dumps the data? It is strange!!!
>
> Yeah, it's a mathematical thing. :-(

Can be thought of as applying a boxcar filter in time domain
(hence multiplying the spectrum with a sinc function) then performing
a downsampling operation in the time domain (i.e. truncating the spectrum).

Can introduce aliasing (a lil bit).

definitely places a null at certain frequencies, and passes (albeit
attenuatedly) some higher frequencies.

Cheers,
bob

PS Personally, I would never mean data together - i'd apply a better filter
than ye ole boxcar.
