Subject: Re: generalized eigenvectors
Posted by Randall Skelton on Tue, 16 Apr 2002 15:43:41 GMT
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This is a good point. Instead of Ax = kx you have Ax = kBx or $(B^-1 A) x = kx$ for the "generalized" form. I certainly hope B is nonsingular...

Cheers, Randall

On 16 Apr 2002, Mirko Vukovic wrote:

- > Randall,
- >
- > the generalized eigenvalue problem involves two matrices, while the
- > routines you suggest will solve the ``ordinary" eigenvalue problem
- > that deals with one matrix only. Take a look at the original post
- > (included below), and you will see what I mean. (BTW, that is about
- > the extent of my expertise on the subject).
- >
- > Mirko
- > ... stuff deleted
- >>> Description of the problem:
- >>> I need to find the eigenvalues and eigenvectors of
- >>> Ax = kBx
- >>> where both A and B are nXn matrices and k is a scalar.

>