Subject: Re: HELP: Levenberg-Marquardt method Posted by agraps on Sat, 04 Mar 1995 17:17:12 GMT

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kletzing@unhedi2.unh.edu (Craig Kletzing) writes:

> I believe that the CURVEFIT routine implements Barington's version of

I believe you mean Bevington (from _Data Reduction and Error Analysis for the Physical Sciences_, 1969 edition).

- > the Levenberg-Marquardt method. This is often not, however, the most
- > stable of curve fitting techniques. If your data is not sufficiently
- > regular, this method can get lost and find only a local best fit while
- > missing other much better fits.
- > Craig Kletzing
- > University of New Hampshire

Would you care to elaborate? I've used my own version of IDL's CURVEFIT (I added the capability to output covariance matrices and fixed what I think is a bug in the final pass of the algorithm) for close to 10 years now on a wide range of different astronomical/atmospheric data sets, and my results are usually very good. I would be very interested in knowing about different/better curvefitting techniques.

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"The play's the thing."Shakespeare