Subject: Curve Fitting Question
Posted by ftdwh on Tue, 14 Sep 1993 18:01:11 GMT
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The question I have is how to properly use the curvefit routine to fit a function that I am defining. It is as follows:

mclat = A1 + A2*cos(mlt + A3) + A4*cos(2*mlt + 2*A5) + A6*cos(3*mlt + 3*A7)

where mclat is the magnetic co-latitude, mlt is an angular representation of the magnetic local time.(This is a Fourier fit)

I have in my data set the mclat and mlt, but I want to find the coefficients A1-A7. Can I do this using the fitting routine in IDL? If I can, what are the steps I need to follow? (As with most manuals they seem to be written for somebody who already knows what they are doing. Along that train of thought can any body recommend a book that might help those of us not fully knowledgable in IDL)

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