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Subject: Re: WTD: Orbital analysis with IDL

Posted by [Liam E. Gumley](#) on Thu, 17 May 2001 14:18:44 GMT

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Randall Skelton wrote:

- > I know this is a long shot, but does anyone have IDL routines for
- > calculating and plotting satellite orbits from state vector data (i.e.
- > the space shuttle). I have measurements made on the shuttle which are
- > accurately time stamped, and I have the orbit parameters below... If no
- > one has code, can anyone recommend a good book on orbital mechanics?

Randall,

Unless you are extremely keen to learn the intricacies of orbital mechanics, I'd recommend one of the many existing packages available on the Web:

<http://www.celestrak.com/software/>

You may also want to look into the Satellite Tool Kit (STK), available from

<http://www.stk.com/>

An evaluation version can be obtained at no cost, and it will propagate orbits given a Two-Line-Element (TLE) set like the one you showed in your post.

Cheers,

Liam.

<http://cimss.ssec.wisc.edu/~gumley/>

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