
Subject: IDL software available

Posted by [David L. Windt](#) on Thu, 25 Jun 1998 07:00:00 GMT

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I've written many programs in IDL that you're welcome to use if you like. Listed below is a short description of what's available. If you're interested, have a look at <http://www.bell-labs.com/user/windt/idl/> for complete downloading and installation instructions.

Available IDL libraries:

imd - Multilayer optical properties: modeling and curve-fitting

Version 4.0, June 1998

IMD is a point-and-click IDL application that can calculate specular and non-specular (diffuse) optical functions of an arbitrary multilayer structure, i.e., a structure consisting of any number of layers of any thickness, and of any material. IMD includes a database of optical constants for over 150 materials, spanning the X-ray region to the infrared. It's also easy to use your own optical constants if necessary, or to create new X-ray optical constants for any compound, using tabulated atomic scattering factors for 92 elements. IMD can be used for both modeling and for parameter estimation by nonlinear, least-squares curve-fitting (including confidence interval generation) to your own measured data.

topo - Surface topography analysis

Version 2.03, June 1998

The topo library is a set of IDL routines for analyzing 1D or 2D surface topography (i.e., surface roughness) data. I originally wrote these routines in order to analyze WYKO and AFM data of optical surfaces, but the routines are general, and can be used to analyze any type of 1D or 2D topography data.

windt - General purpose routines

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