Sample: 1-Nb2O5

Fit Results

MSE = 2.933

Thickness # 1 = 8.71 ± 0.035 nm

Einf = 2.886 ± 4.7242

UV Pole Amp. = 74.3745 ± 2085.78541

UV Pole En. = 15.000 ± 104.1661

Amp1 = 41.609 ± 6.9563

Br1 = 2.133 ± 0.0596

Eo1 = 4.528 ± 0.0424

Eg1 = 3.369 ± 0.0103

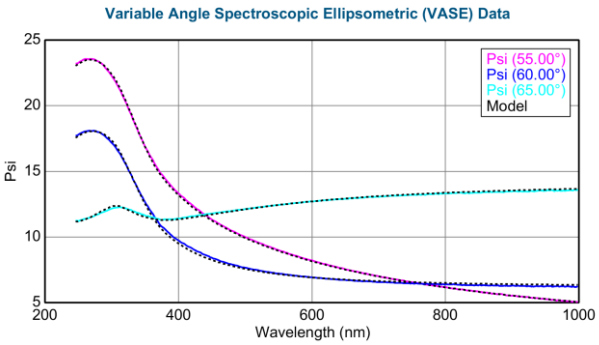
Ep1 = 2.043 ± 0.2568

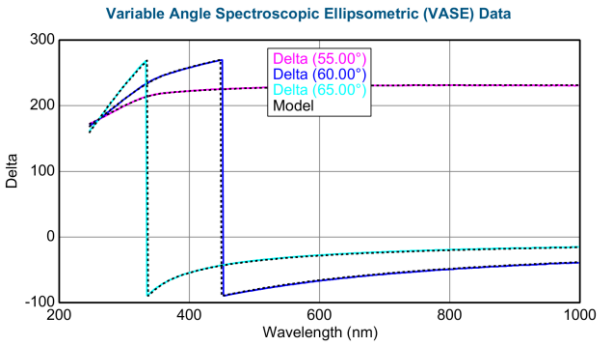
Back Reflections = 0.411 ± 0.005207

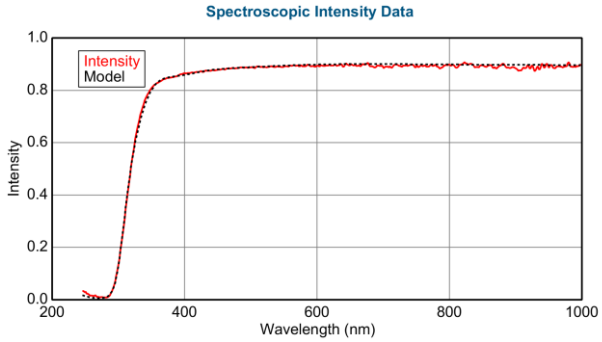
Optical Model

+ Layer # 1 = Gen-Osc Thickness # 1 = **8.71 nm** (fit)
+ Substrate = B-Spline Substrate Thickness = 1.0000 mm

Experimental and Model Generated Data Fits







Sample: 3-Nb2O5

Fit Results

MSE = 1.228

Thickness # 1 = 20.35 ± 0.012 nm

Einf = 2.261 ± 0.0215

UV Pole Amp. = 15.7945 ± 0.92122

UV Pole En. = 6.025 ± 0.0364

Amp1 = 47.509 ± 4.0071

Br1 = 1.917 ± 0.0218

Eo1 = 4.507 ± 0.0177

Eg1 = 3.441 ± 0.003442

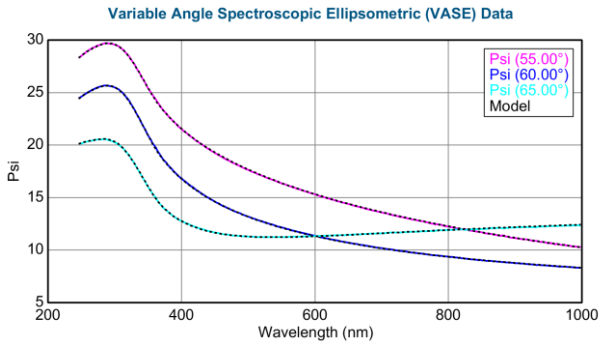
Ep1 = 1.989 ± 0.1196

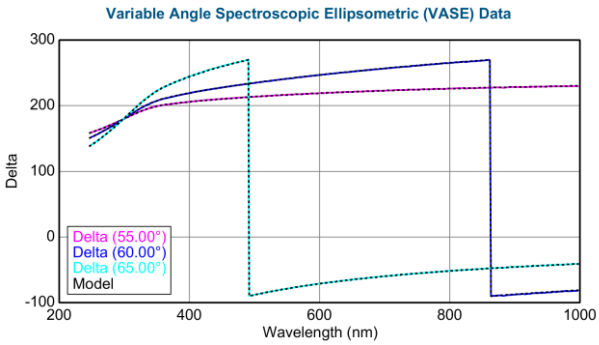
Back Reflections = 0.0865 ± 0.001843

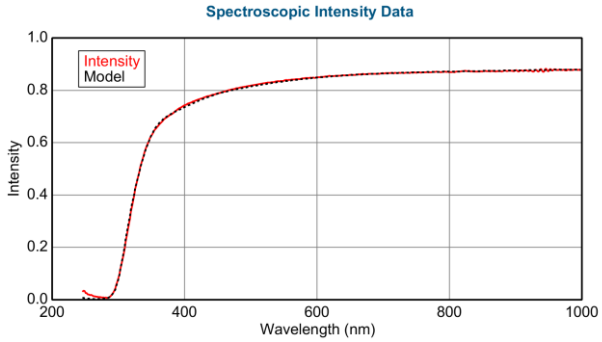
Optical Model

+ Layer # 1 = Gen-Osc Thickness # 1 = **20.35 nm** (fit)
+ Substrate = B-Spline Substrate Thickness = 1.0000 mm

Experimental and Model Generated Data Fits







Sample: 5-ITO

Fit Results

MSE = 5.110

Einf = 2.785 ± 0.0216

Amp1 = 10.5806 ± 0.57175

Br1 = 0.809 ± 0.0139

Eo1 = 4.045 ± 0.005257

Eg1 = 2.611 ± 0.0384

Amp2 = 3.289416 ± 0.0313887

Br2 = 2.5873 ± 0.03768

En2 = 5.960 ± 0.0294

Resistivity (Ohm·cm)3 = 5.1595E-06 ± 2.0901E-05

Scat. Time (fs)3 = 770.633 ± 3123.4228

% Inhomogeneity = -8.44 ± 0.0861

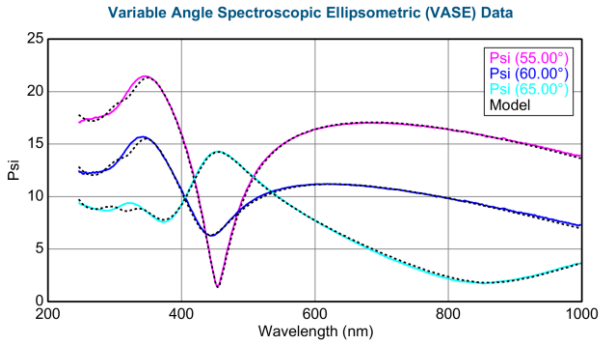
Thickness # 1 = 115.49 ± 0.079 nm

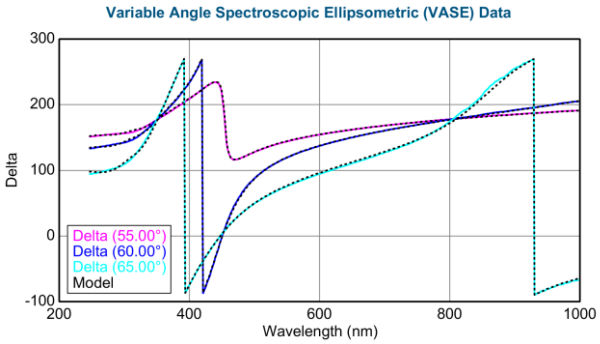
Back Reflections = 0.124 ± 0.006566

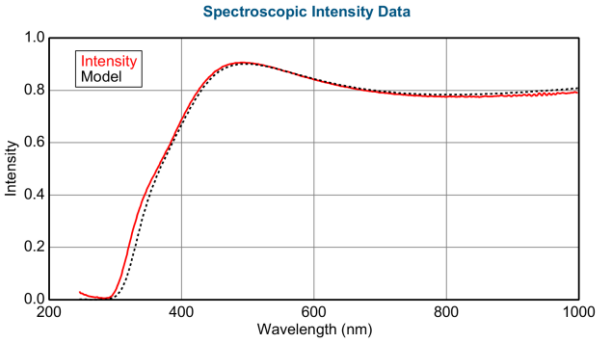
Optical Model

- Graded Layer Thickness # 1 = **115.49 nm** (fit)
  - Grade Type = Simple # of Slices = 5
  - % Inhomogeneity = **-8.44** (fit)
  - \+ Material = ITO (GenOsc)
- \+ Substrate = B-Spline Substrate Thickness = 1.0000 mm

Experimental and Model Generated Data Fits






Spectroscopic Intensity Data
Intensity
Model
Intensity
Wavelength (nm)
1.0
0.8
0.6
0.4
0.2
0.0
200
400
600
800
1000