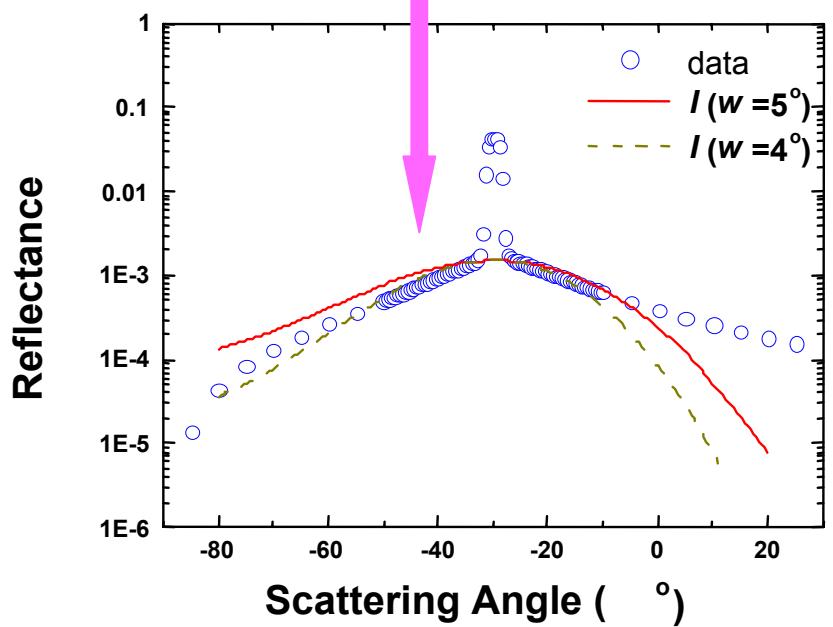
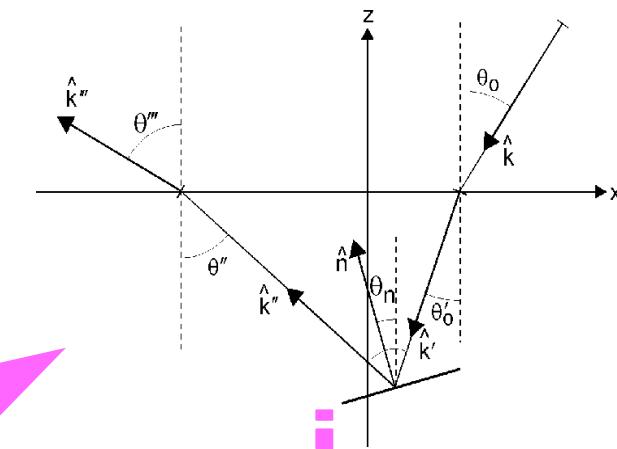
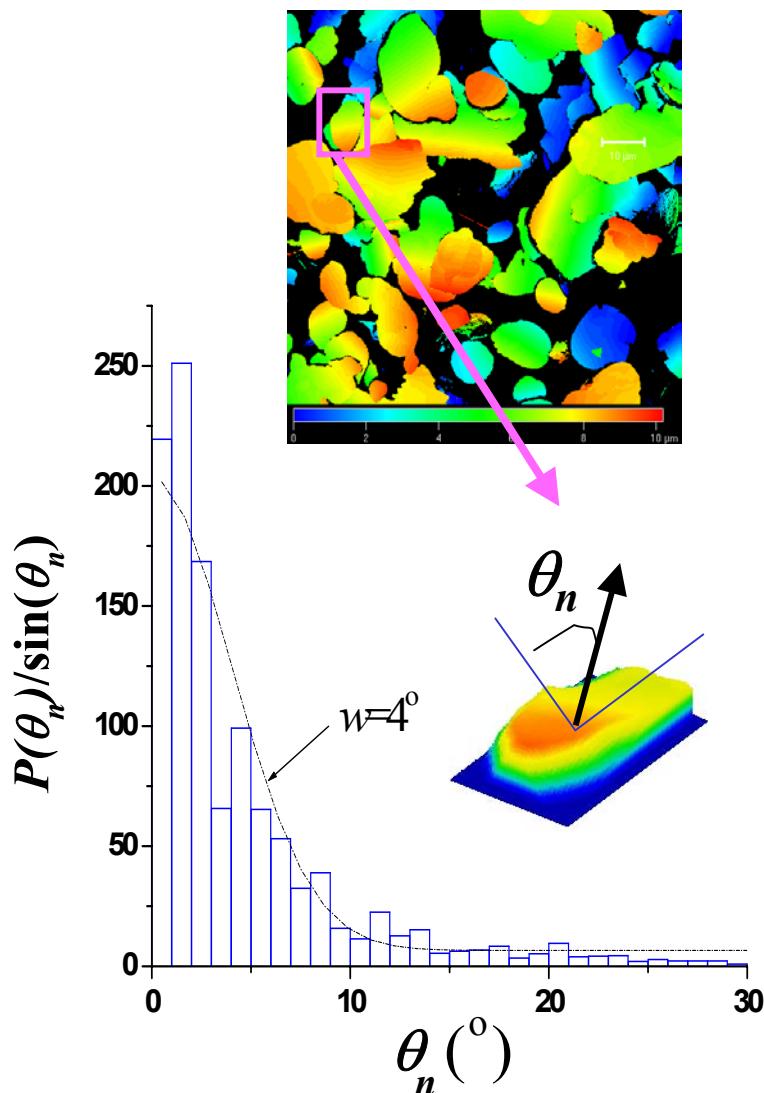


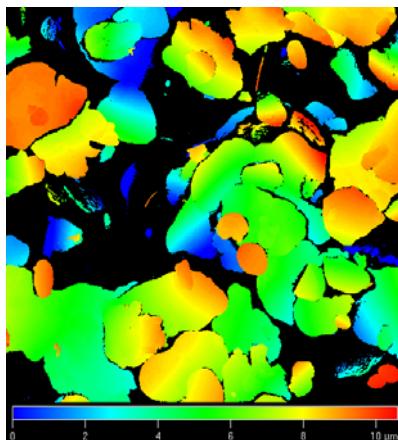
Optical Reflectance of Metallic Coatings Calculated from Flake Orientation Distribution

Ray scattering model

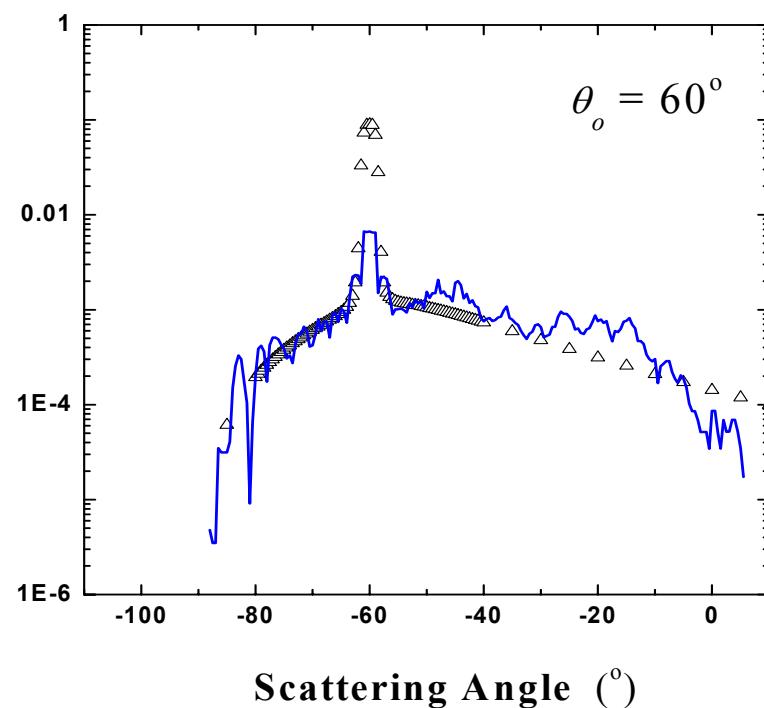
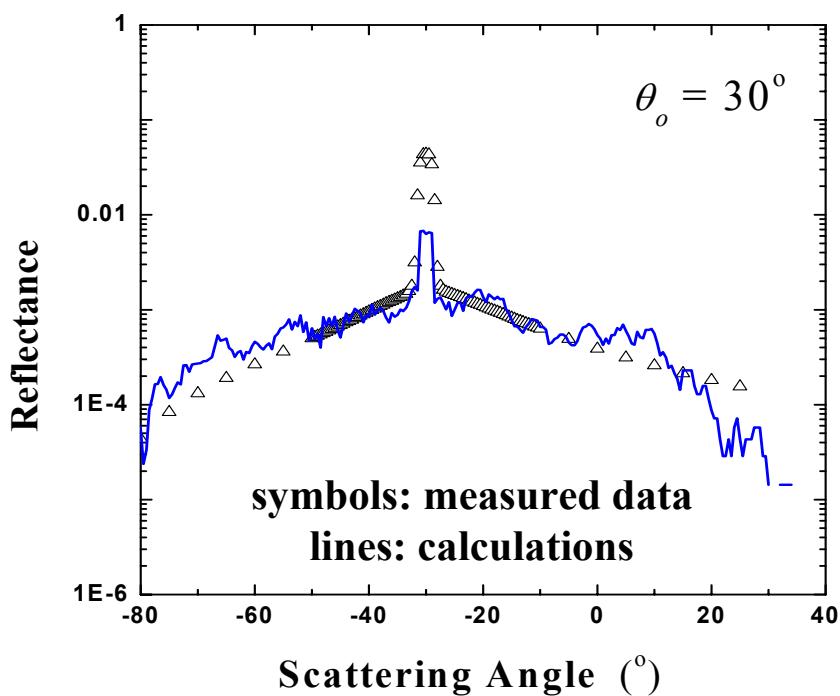
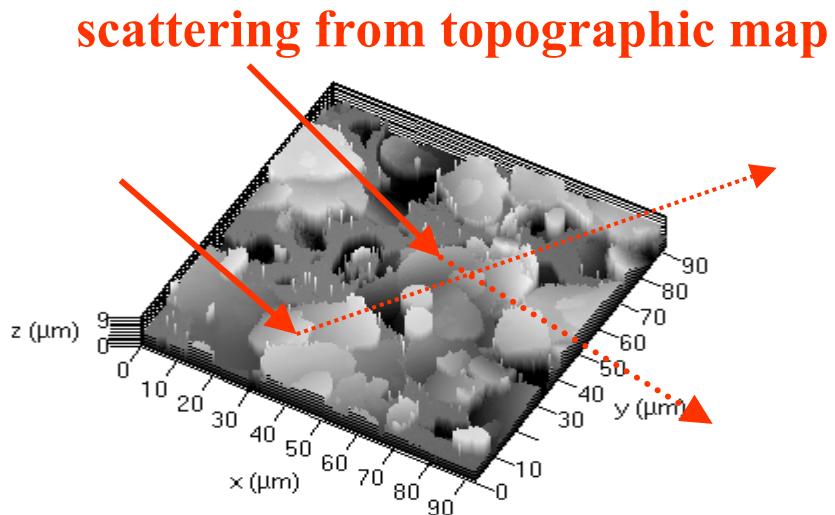


$$P(\theta_n) = \sum \text{(area of flake having surface normal angle of } \theta_n)$$

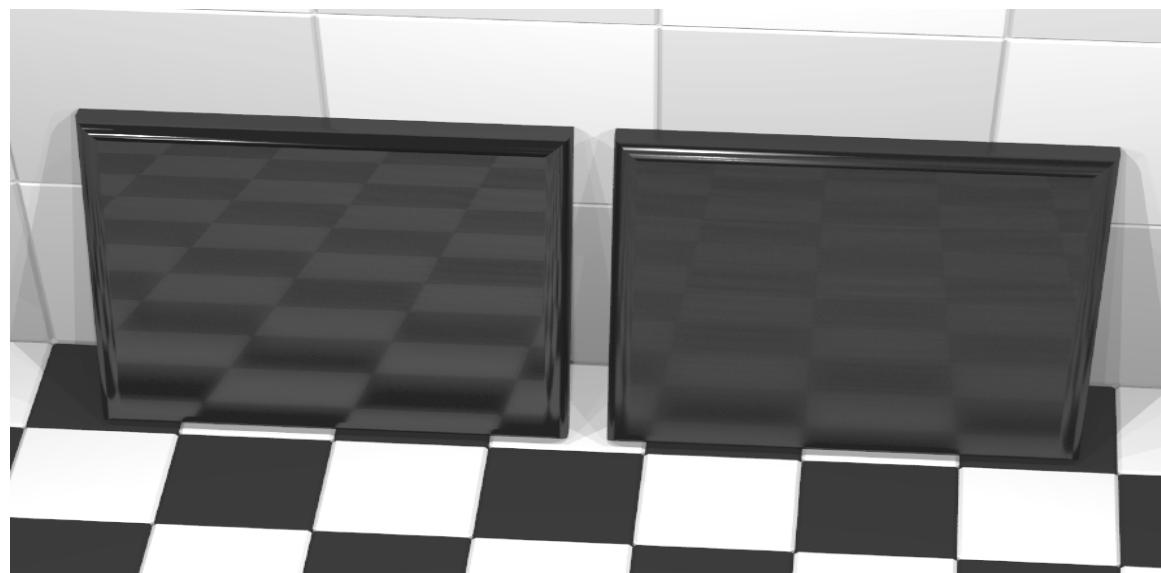
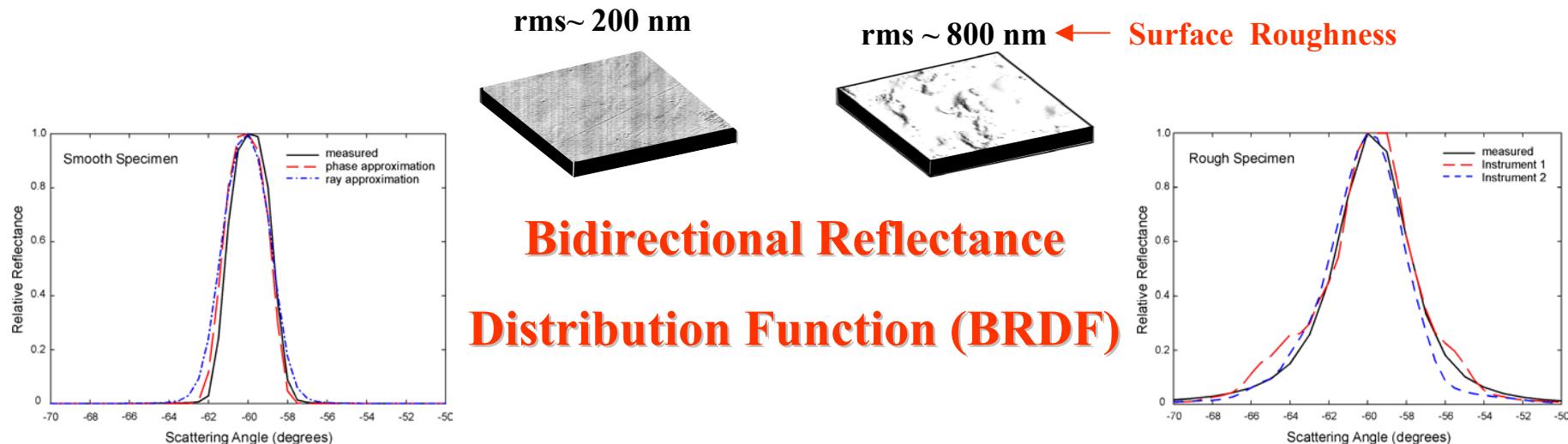
Optical Reflectance Calculation from Microstructure Measurements



Metallic Coatings



Predicting Appearance from Surface Morphology



Rendered Image