

## **Some Recent Developments in the Use of Coherent X-rays for Studying the Structure and Dynamics of Surfaces**

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We shall discuss the scattering of coherent X-rays from surfaces, including recent studies of surface structure using grazing incidence diffraction imaging and of surface and thin film dynamics using X-ray Photon Correlation Spectroscopy. We shall also discuss recent developments in the theoretical methods of analysis of the results of these experiments, including a re-examination of some the commonly held assumptions in such analysis.