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A Glancing Incidence Exafs Study of Evaporated Silver Films on Glass

Ahmet BULUT
e-mail: abulut@samsun.omu.edu.tr,
Bünyamin KARABULUT
University of Ondokuz Mayıs, Faculty of Arts and Sciences,
Department of Physics, Kurupelit, 55139 Samsun-TURKEY
Engin BAŞARAN
Gebze Institute of Technology, Department of Physics,
41400 Gebze-TURKEY
James ROBINSON
University of Warwick, Department of Physics,
Coventry CV4 7AL, UK

Abstract: A glancing incidence EXAFS experiment has been carried out with evaporated silver films on glass substrates. Prior to EXAFS data collection, a reflectivity curve was performed from which the critical angle for total external reflection of x-rays from surface were determined. The analysed EXAFS data revealed that there is a reduction in the coordination number and an increase in Debye-Waller factor compared to bulk values. These changes were explained in terms of grain size effect and the surface effects of the silver film.

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