Semiconducting Silicides Growth Characterisation and Devices

Abstract

In this talk I will outline methods of synthesis and characterisation of the semiconducting silicides. The talk will concentrate on iron disilicide the most studied and perhaps potentially most useful of these materials, and on fabrication using ion beam synthesis and co-sputtering. The talk will be in the context of the need to develop these new materials and possible applications.

New results on amorphous semiconducting silicides and their applications will also be presented.
Short Biography

Kevin Homewood is Professor of Semiconductor Optoelectronics, in the Department of Electronics, within the School of Electronics and Physical Sciences; a department he joined as lecturer in 1984. The department received the highest 6* research rating in the last government research assessment exercise. Kevin’s current research interests are in developing the areas of synthesis, characterisation and new devices in novel silicon based materials of potential strategic importance for applications in the microelectronics, computing and communication industries. He has published around 140 papers in these areas. He is also a contract holder of the national UK Ion Beam Centre based at Surrey.

----- All Interested are Welcome -----

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