



Solid Surfaces, Interfaces and Thin Films

By Hans Lüth

Springer-Verlag GmbH Nov 2012, 2012. Taschenbuch. Book Condition: Neu. 236x159x32 mm. Neuware - The fourth edition of Solid Surfaces, Interfaces and Thin Films has been used meanwhile as a standard textbook around the world at many universities and research institutions. Even though surface and interface physics have become a mature science branch, their theoretical concepts and experimental techniques are of higher importance than ever before because of their impact on nanostructure physics. Surface and interface physics form the basis for modern nanoscience, be it in quantum electronics, in catalysis, in corrosion, or in lubrication research. This explains the ever-growing demand for education in these fields. It was therefore time to carefully revise the book and bring it up to latest developments both in fundamental research and in application. Concerning new material aspects topics about group III nitride surfaces and high k-oxide/semiconductor heterostructures have been included. Recent developments in these material classes are of essential importance for high-speed/high-power electronics and advanced - based CMOS technology on the nanometer scale. The novel field of spin electronics or spintronics having been initiated by the detection of the giant magnetoresistance (GMR) by Peter Grünberg and Albert Fert (Nobel Prize 2007) required a...



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