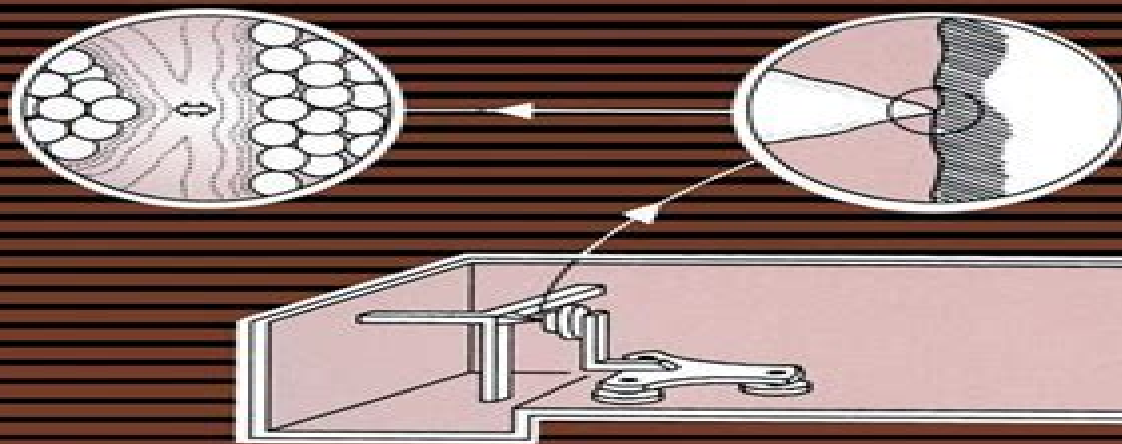


Surface Sciences

R. Wiesendanger H.-J. Güntherodt (Eds.)

Scanning Tunneling Microscopy II



Second Edition

Springer



Scanning Tunneling Microscopy Ii Further Applications And Related Scanning Techniques

**Hans-Joachim Güntherodt, Roland
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Marcus, Florian B. Mansfeld, 2005-07-27 Damage from corrosion costs billions of dollars per year Controlling corrosion requires a fundamental in depth understanding of the mechanisms and phenomena involved and this understanding is best achieved through advanced analytical methods The first book to treat both surface analytical and electrochemical techniques in a single reference An

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probe methods In this second edition the text has been updated and new methods are discussed *Applications of Synchrotron Radiation* Wolfgang Eberhardt, 2012-12-06 Applications of synchrotron radiation in physics chemistry materials science and biology has now matured from an exotic experimental field into a well established area of science The spectroscopy of molecules and molecular adsorbates on surfaces is one area of science where in the past synchrotron radiation related studies had made an impact on understanding the ground state properties as well as the dynamics With the new high brightness synchrotron radiation sources ahead this will certainly continue to be a field of very active research This quasi monograph reviews the current state of the field for both the active research scientist and the new graduate student wishing to become acquainted with this field of research *Progress in Transmission Electron Microscopy 2* Xiao-Feng Zhang, Ze Zhang, 2001-10-18 Transmission electron microscopy TEM is now recognized as a crucial tool in materials science This book authored by a team of expert Chinese and international authors covers many aspects of modern electron microscopy from the architecture of novel electron microscopes advanced theories and techniques in TEM and sample preparation to a variety of hands on examples of TEM applications Volume 2 illustrates the important role that TEM is playing in the development and characterization of advanced materials including nanostructures interfacial structures defects and macromolecular complexes

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