

Atomic Force Microscopy/Scanning Tunneling Microscopy

The first U. S. Army Natick Research, Development and Engineering Center Atomic Force/Scanning Tunneling Microscopy (AFM/STM) Symposium was held on June 8-10, 1993 in Natick, Massachusetts. This book represents the compilation of the papers presented at the meeting. The purpose of this symposium was to provide a forum where scientists from a number of diverse fields could interact with one another and exchange ideas. The various topics included application of AFM/STM in material sciences, polymers, physics, biology and biotechnology, along with recent developments including new probe microscopies and frontiers in this exciting area. The meeting's format was designed to encourage communication between members of the general scientific community and those individuals who are at the cutting edge of AFM, STM and other probe microscopies. It immediately became clear that this conference enabled interdisciplinary interactions among researchers from academia, industry and government, and set the tone for future collaborations. Expert scientists from diverse scientific areas including physics, chemistry, biology, materials science and electronics were invited to participate in the symposium. The agenda of the meeting was divided into three major sessions. In the first session, Biological Nanostructure, topics ranged from AFM of DNA to STM imaging of the biomolecule tubulin and bacterial luciferase to the AFM of starch polymer double helices to AFM imaging of food surfaces.

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Edited by
Samuel H. Cohen
Mona T. Bray and
Marcia L. Lightbody

160,49 €

149,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780306448904

Medium: Buch

ISBN: 978-0-306-44890-4

Verlag: Springer US

Erscheinungstermin: 31.03.1995

Sprache(n): Englisch

Auflage: 1994

Produktform: Gebunden

Gewicht: 1830 g

Seiten: 454

Format (B x H): 160 x 241 mm

