

Sanders

Atomic Force Microscopy

Fundamental Concepts and Laboratory Investigations

This book focuses primarily on the atomic force microscope and serves as a reference for students, postdocs, and researchers using atomic force microscopes for the first time. In addition, this book can serve as the primary text for a semester-long introductory course in atomic force microscopy. There are a few algebra-based mathematical relationships included in the book that describe the mechanical properties, behaviors, and intermolecular forces associated with probes used in atomic force microscopy. Relevant figures, tables, and illustrations also appear in each chapter in an effort to provide additional information and points of interest. This book includes suggested laboratory investigations that provide opportunities to explore the versatility of the atomic force microscope. These laboratory exercises include opportunities for experimenters to explore force curves, surface roughness, friction loops, conductivity imaging, and phase imaging.



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142,50 €

133,18 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780367371234

Medium: Buch

ISBN: 978-0-367-37123-4

Verlag: Taylor & Francis Ltd

Erscheinungstermin: 14.10.2019

Sprache(n): Englisch

Auflage: 1. Auflage 2019

Produktform: Gebunden

Gewicht: 381 g

Seiten: 153

Format (B x H): 156 x 234 mm



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Kundenservice Fachmedien Otto Schmidt

Neumannstraße 10, 40235 Düsseldorf | kundenservice@fachmedien.de | 0800 000-1637 (Inland)

18.07.2024 | 17:40 Uhr

