

Graduate Texts in Physics

Hans Lüth

# Solid Surfaces, Interfaces and Thin Films

*Sixth Edition*

 Springer

# Solid Surfaces Interfaces And Thin Films

**E. Borchardt**



## **Solid Surfaces Interfaces And Thin Films:**

Solid Surfaces, Interfaces and Thin Films Hans Lüth, 2010-09-02 Solid Surfaces Interfaces and Thin Films examines both experimental and theoretical aspects of surface interface and thin film physics Coverage of magnetic thin films has been expanded and now includes giant magnetoresistance and the spin transfer torque mechanism **Solid Surfaces, Interfaces and Thin Films** Hans Luth, 2014-01-15 *Polymer Surfaces, Interfaces And Thin Films* Alamgir Karim, Sanat Kumar, 2000-04-19 The theoretical and experimental study of polymers polymer surfaces and thin films has undergone a revolution in the last 25 years This book captures recent advances in this field It covers equilibrium aspects kinetics and reactions at interfaces It is aimed not only at a research audience but also at beginners January 1, 2022-01-19 No detailed description available for January 1 16 January Görlich, 2021-11-22 No detailed description available for 16 January *Elementary Processes in Excitations and Reactions on Solid Surfaces* Ayao Okiji, Hideaki Kasai, Kenji Makoshi, 2012-12-06 Elementary Processes in Excitations and Reactions on Solid Surfaces explores the fundamental nature of dynamics on solid surfaces Attempts are made to reveal various aspects of elementary processes in excitations and reactions on solid surfaces by recent theoretical and experimental developments of the subjects such as molecular beams interacting with surfaces ion beam scattering laser induced dynamical processes electronically induced dynamical processes and optical properties of solid surfaces This volume is divided into three parts Part I is concerned mainly with the rich reaction dynamics on potential energy surfaces Part II is devoted to the interplay of excitations In Part III new and rapidly developing methods are introduced An Essential Guide to Electronic Material Surfaces and Interfaces Leonard J. Brillson, 2016-08-01 An Essential Guide to Electronic Material Surfaces and Interfaces is a streamlined yet comprehensive introduction that covers the basic physical properties of electronic materials the experimental techniques used to measure them and the theoretical methods used to understand predict and design them Starting with the fundamental electronic properties of semiconductors and electrical measurements of semiconductor interfaces this text introduces students to the importance of characterizing and controlling macroscopic electrical properties by atomic scale techniques The chapters that follow present the full range of surface and interface techniques now being used to characterize electronic optical chemical and structural properties of electronic materials including semiconductors insulators nanostructures and organics The essential physics and chemistry underlying each technique is described in sufficient depth for students to master the fundamental principles with numerous examples to illustrate the strengths and limitations for specific applications As well as references to the most authoritative sources for broader discussions the text includes internet links to additional examples mathematical derivations tables and literature references for the advanced student as well as professionals in these fields This textbook fills a gap in the existing literature for an entry level course that provides the physical properties experimental techniques and theoretical methods essential for students and professionals to understand and participate in solid state electronics physics and materials science

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