

Preface

Surface Science – An Introduction is designed as a textbook for undergraduate and graduate students in engineering and physical sciences who want to get a general overview of surface science. It also provides necessary background information for researchers just starting out in the field. The book covers all the most important aspects of modern surface science with all subjects being presented in a concise and clear form accessible to a beginner.

It includes:

- Experimental background on ultra-high-vacuum technology;
- An overview of the most widely used analytical techniques;
- The basics of two-dimensional crystallography;
- Information on atomic structure of well-defined clean and adsorbate-covered crystal surfaces;
- Consideration of a variety of surface phenomena and properties;
- Application of surface science to thin film growth and nanostructure formation.

The whole is rounded off with:

- Numerous vivid examples from classical and very recent original works;
- Problems and practice exercises which aim to develop a deeper awareness of the subject;
- Principal references for further reading.

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Contents

1. Introduction	1
2. Basics of Two-Dimensional Crystallography	3
2.1 Two-Dimensional Lattices	3
2.1.1 Lattice, Basis, and Crystal Structure (3D Case)	3
2.1.2 Concept of a 2D Lattice	3
2.1.3 2D Bravais Lattices	4
2.2 Miller Indices for Crystal Planes	6
2.2.1 Definition of Miller Indices	6
2.2.2 Low-Miller-Index Planes of Some Important Crystals .	8
2.2.3 High-Miller-Index Stepped Surfaces	8
2.3 Indices of Directions	11
2.4 Notation for Surface Structures	11
2.4.1 Matrix Notation	11
2.4.2 Wood's Notation	12
2.4.3 Some Examples	13
2.5 2D Reciprocal Lattice	14
2.6 Brillouin Zone	16
Problems	17
Further Reading	18
3. Experimental Background	19
3.1 Why Ultra-High Vacuum?	19
3.2 Vacuum Concepts	20
3.3 Ultra-High-Vacuum Technology	23
3.3.1 UHV Materials	23
3.3.2 UHV Pumping System	24
3.3.3 UHV Hardware	32
3.4 Preparation of Atomically Clean Surfaces	35
3.4.1 Cleavage	35
3.4.2 Heating	37
3.4.3 Chemical Treatment	37
3.4.4 Ion Sputtering and Annealing	37
3.5 UHV Deposition Technology	38

3.5.1	Deposition Concepts	38
3.5.2	Deposition Sources	39
3.5.3	Deposition Monitors	43
3.5.4	Exposure to Gases	44
	Problems	45
	Further Reading	46
4.	Surface Analysis I. Diffraction Methods	47
4.1	Low-Energy Electron Diffraction (LEED)	47
4.1.1	Ewald Construction in LEED Conditions	47
4.1.2	LEED Experimental Set-Up	49
4.1.3	Interpretation of a LEED Pattern	51
4.2	Reflection High-Energy Electron Diffraction (RHEED)	59
4.2.1	Ewald Construction in RHEED Conditions	59
4.2.2	RHEED Set-Up	60
4.2.3	RHEED Analysis	61
4.3	Grazing Incidence X-Ray Diffraction (GIXRD)	66
4.3.1	Refraction of X-Rays at Grazing Incidence	66
4.3.2	Ewald Construction in GIXRD Conditions and Basics of the Kinematic Approximation	67
4.3.3	GIXRD Experimental Set-Up	69
4.3.4	Structural Analysis by GIXRD	69
4.4	Other Diffraction Techniques	73
4.4.1	Transmission Electron Diffraction (TED)	73
4.4.2	Atom Scattering	73
4.4.3	Photoelectron Diffraction (PED) and Auger Electron Diffraction (AED)	74
	Problems	74
	Further Reading	75
5.	Surface Analysis II. Electron Spectroscopy Methods	77
5.1	General Remarks	77
5.1.1	Surface Specificity	77
5.1.2	Spectrum of Secondary Electrons	77
5.1.3	Electron Energy Analyzers	78
5.2	Auger Electron Spectroscopy	82
5.2.1	Physical Principles	82
5.2.2	AES Experimental Set-Up	84
5.2.3	AES Analysis	86
5.3	Electron Energy Loss Spectroscopy	89
5.3.1	Core Level Electron Energy Loss Spectroscopy	90
5.3.2	Electron Energy Loss Spectroscopy	92
5.3.3	High-Resolution Electron Energy Loss Spectroscopy ..	95
5.4	Photoelectron Spectroscopy	98
5.4.1	Photoelectric Effect	98

5.4.2	PES Experimental Set-Up	99
5.4.3	PES Analysis	101
Problems	.....	107
Further Reading	.....	108
6.	Surface Analysis III. Probing Surfaces with Ions	109
6.1	General Principles	109
6.1.1	Classical Binary Collisions	109
6.1.2	Scattering Cross-Section	113
6.1.3	Shadowing and Blocking	114
6.1.4	Channeling	117
6.1.5	Sputtering	118
6.1.6	Ion-Induced Electronic Processes	120
6.2	Low-Energy Ion Scattering Spectroscopy	123
6.2.1	General Remarks: Merits and Problems	123
6.2.2	Alkali Ion Scattering and Time-of-Flight Techniques ..	124
6.2.3	Quantitative Structural Analysis in Impact-Collision Geometry	126
6.3	Rutherford Backscattering and Medium-Energy Ion Scattering Spectroscopy	129
6.3.1	General Remarks	129
6.3.2	Surface Peak	131
6.3.3	Thin Film Analysis	136
6.4	Elastic Recoil Detection Analysis	137
6.5	Secondary Ion Mass Spectroscopy	138
Problems	.....	142
Further Reading	.....	143
7.	Surface Analysis IV. Microscopy	145
7.1	Field Emission Microscopy	145
7.2	Field Ion Microscopy	147
7.3	Transmission Electron Microscopy	149
7.4	Reflection Electron Microscopy	152
7.5	Low-Energy Electron Microscopy	154
7.6	Scanning Electron Microscopy	156
7.7	Scanning Tunneling Microscopy	159
7.8	Atomic Force Microscopy	164
Problems	.....	168
Further Reading	.....	168
8.	Atomic Structure of Clean Surfaces	171
8.1	Relaxation and Reconstruction	171
8.2	Relaxed Surfaces of Metals	173
8.2.1	Al(110)	173
8.2.2	Fe(211)	174

8.3	Reconstructed Surfaces of Metals	176
8.3.1	Pt(100)	176
8.3.2	Pt(110)	178
8.3.3	W(100)	178
8.4	Graphite Surface	179
8.5	Surfaces of Elemental Semiconductors	180
8.5.1	Si(100)	181
8.5.2	Si(111)	183
8.5.3	Ge(111)	187
8.6	Surfaces of III-V Compound Semiconductors	188
8.6.1	GaAs(110)	188
8.6.2	GaAs(111) and GaAs($\bar{1}\bar{1}\bar{1}$)	189
	Problems	192
	Further Reading	194
9.	Atomic Structure of Surfaces with Adsorbates	195
9.1	Surface Phases in Submonolayer Adsorbate/Substrate Systems	195
9.2	Surface Phase Composition	196
9.2.1	Coverage of Adsorbate	197
9.2.2	Coverage of Substrate Atoms	199
9.2.3	Experimental Determination of Composition	200
9.3	Formation Phase Diagram	205
9.4	Metal Surfaces with Adsorbates	210
9.4.1	Family of $\sqrt{3}\times\sqrt{3}$ Structures on (111) fcc Metal Surfaces	210
9.4.2	Ni(110)2 \times 1-CO	213
9.4.3	$n\times 1$ Structures in Pb/Cu(110), Bi/Cu(110), Li/Cu(110), and S/Ni(110) Systems	214
9.5	Semiconductor Surfaces with Adsorbates	217
9.5.1	Family of $\sqrt{3}\times\sqrt{3}$ Structures on Si(111) and Ge(111)	217
9.5.2	2 \times 1, 1 \times 1, and 3 \times 1 Phases in the H/Si(100) System	224
	Problems	226
	Further Reading	227
10.	Structural Defects at Surfaces	229
10.1	General Consideration Using the TSK Model	229
10.1.1	Point Defects	229
10.1.2	Steps, Singular and Vicinal Surfaces, Facets	232
10.2	Selected Realistic Examples	237
10.2.1	Adatoms	237
10.2.2	Vacancies	239
10.2.3	Anti-Site Defects	243
10.2.4	Dislocations	245
10.2.5	Domain Boundaries	247

10.2.6 Steps	252
10.2.7 Facetting	257
Problems	260
Further Reading	260
11. Electronic Structure of Surfaces	261
11.1 Basics of Density Functional Theory	261
11.2 Jellium Model	263
11.3 Surface States	266
11.4 Electronic Structure of Selected Surfaces	272
11.4.1 Si(111)2×1	272
11.4.2 Si(111)7×7	273
11.4.3 Si(111)1×1-As	275
11.4.4 Si(111) $\sqrt{3}\times\sqrt{3}$ -In	277
11.5 Surface Conductivity	277
11.6 Work Function	282
11.6.1 Work Function of Metals	282
11.6.2 Work Function of Semiconductors	286
11.6.3 Work Function Measurements	286
Problems	293
Further Reading	293
12. Elementary Processes at Surfaces I.	
Adsorption and Desorption	295
12.1 Adsorption Kinetics	295
12.1.1 Coverage Dependence	296
12.1.2 Temperature Dependence	301
12.1.3 Angular and Kinetic Energy Dependence	305
12.2 Thermal Desorption	305
12.2.1 Desorption Kinetics	305
12.2.2 Thermal Desorption Spectroscopy	308
12.3 Adsorption Isotherms	315
12.4 Non-Thermal Desorption	319
Problems	322
Further Reading	323
13. Elementary Processes at Surfaces II. Surface Diffusion	325
13.1 Basic Equations	325
13.1.1 Random-Walk Motion	325
13.1.2 Fick's Laws	327
13.2 Tracer and Chemical Diffusion	330
13.3 Intrinsic and Mass Transfer Diffusion	331
13.4 Anisotropy of Surface Diffusion	333
13.5 Atomistic Mechanisms of Surface Diffusion	335
13.5.1 Hopping Mechanism	336

13.5.2 Atomic Exchange Mechanism	338
13.5.3 Tunneling Mechanism	338
13.5.4 Vacancy Mechanism	340
13.6 Surface Diffusion of Clusters	341
13.7 Surface Diffusion and Phase Formation	345
13.8 Surface Electromigration	348
13.9 Experimental Study of Surface Diffusion	349
13.9.1 Direct Observation of Diffusing Atoms	349
13.9.2 Profile Evolution Method	350
13.9.3 Capillarity Techniques	353
13.9.4 Island Growth Technique	354
Problems	356
Further Reading	356
14. Growth of Thin Films	357
14.1 Growth Modes	357
14.2 Nucleation and Growth of Islands	359
14.2.1 Island Number Density	359
14.2.2 Island Shape	365
14.2.3 Island Size Distribution	368
14.2.4 Vacancy Islands	374
14.3 Kinetic Effects in Homoepitaxial Growth	374
14.4 Strain Effects in Heteroepitaxy	377
14.5 Thin Film Growth Techniques	379
14.5.1 Molecular Beam Epitaxy	379
14.5.2 Solid Phase Epitaxy	381
14.5.3 Chemical Beam Epitaxy	382
14.6 Surfactant-Mediated Growth	383
Problems	386
Further Reading	387
15. Atomic Manipulations and Nanostructure Formation	389
15.1 Nano-Size and Low-Dimensional Objects	389
15.2 Atomic Manipulation with STM	393
15.2.1 Lateral Atomic Displacement	394
15.2.2 Atom Extraction	399
15.2.3 Atom Deposition	403
15.3 Self-Organization of Nanostructures	404
15.4 Fullerenes and Carbon Nanotubes	408
Further Reading	415
References	417
Index	433



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