

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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K. Oura
V.G. Lifshits
A.A. Saranin
A.V. Zotov
M. Katayama

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Oura, K.; Lifshits, V.G.; Saranin, A.; Zotov, A.V.;

Katayama, M.

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