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Crystallography and Surface Structure: An Introduction for Surface Scientists and Nanoscientists

Klaus Hermann

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A valuable learning tool as well as a reference, this book provides students and researchers in surface science and nanoscience with the theoretical crystallographic foundations, which are necessary to understand local structure and symmetry of bulk crystals, including ideal and real single crystal surfaces. The author deals with the subject at an introductory level, providing numerous graphic examples to illustrate the mathematical formalism. The book brings together and logically connects many seemingly disparate structural issues and notations used frequently by surface scientists and nanoscientists. Numerous exercises of varying difficulty, ranging from simple questions to small research projects, are included to stimulate discussions about the different subjects.

From the contents:
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- Crystal Layers, Two-Dimensional Lattices, Symmetry
- Ideal Single Crystal Surfaces
- Real Crystal Surfaces
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