



Introduction to Texture Analysis: Macrotexture, Microtexture, and Orientation Mapping, Second Edition

Olaf Engler, Valerie Randle

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The first edition of Introduction to **Texture Analysis: Macrotexture, Microtexture, and Orientation Mapping** broke new ground by collating seventy years worth of research in a convenient single-source format. Reflecting emerging methods and the evolution of the field, the second edition continues to provide comprehensive coverage of the concepts, practices, and applications of techniques used to determine and characterize texture.

Providing a clear focus on scientific principles, this reference keeps mathematics to a minimum in covering both traditional macrotexture analysis and more modern electron-microscopy-based microtexture analysis. The authors integrate the two techniques and address the subsequent need for a more detailed explanation of philosophy, practice, and analysis associated with texture analysis. The book is organized into three sections:

- ***Fundamental Issues*** addresses terminology associated with orientations and texture, in addition to their representation. It also covers the diffraction of radiation, a phenomenon that is the basis for almost all texture analysis.
- ***Macrotexture Analysis*** covers data acquisition, as well as representation and evaluation related to the well-established methods of macrotexture analysis.
- ***Microtexture Analysis*** provides experimental details of the transmission or scanning electron microscope-based techniques for microtexture analysis. It also describes how microtexture data are evaluated and represented and explores the innovative topics of orientation microscopy and mapping, and advanced issues concerning crystallographic aspects of interfaces and connectivity.

Completely revised and updated, this second edition of a bestseller is a rare introductory-level guide to texture analysis. It illustrates approaches to orientation measurement and interpretation and elucidates the fundamental principles on which measurements are based. This book is an ideal tool to help you develop a working understanding of the practice and applications of texture.

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