



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

By Olaf Engler, Valerie Randle

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The first edition of **Introduction to Texture Analysis: Macrotecture, 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 macrotecture 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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Editorial Review

About the Author

Olaf Engler is senior scientist of metallurgy at the Research and Development Center of Hydro Aluminium in Bonn, Germany. Prior to that, he was at the University of Technology in Aachen, Germany, and the Materials Science and Technology Division of Los Alamos National Laboratory in the United States. Since 2004, he has also been an adjunct professor for Texture and Crystal Plasticity at the NTNU Trondheim, Norway, and a member of the international committee of the International Conference on Texture of Materials (ICOTOM). Engler has more than 20 years of experience in analysis, interpretation, and modeling of the development of microstructure and texture during the thermomechanical processing of metallic materials and control of the resulting materials properties.

Valerie Randle has been eminent in the field of electron backscatter diffraction for more than 20 years. Her other main research interest is grain boundary engineering in metals and alloys. She has written more than 300 scientific publications on these research topics, including five textbooks. Randle is a past Welsh Woman of the Year and recipient of the Institute of Materials' Rosenhain Medal. Currently, she is the senior professor in the Materials Research Centre at Swansea University in Wales, United Kingdom.

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