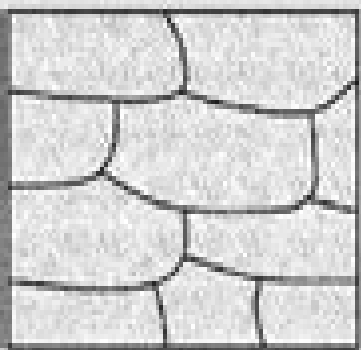
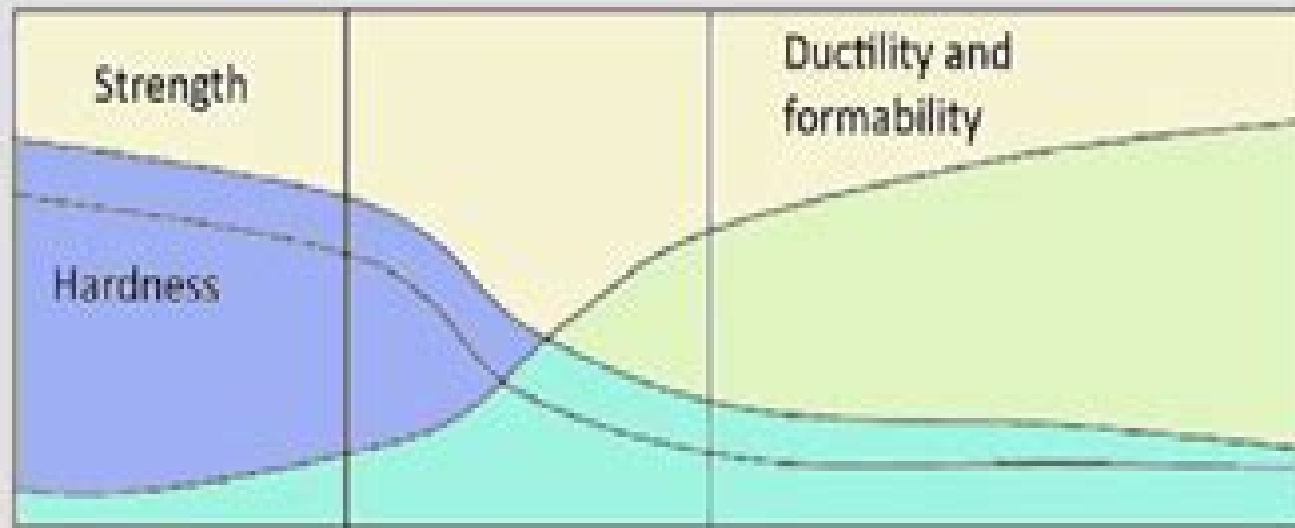
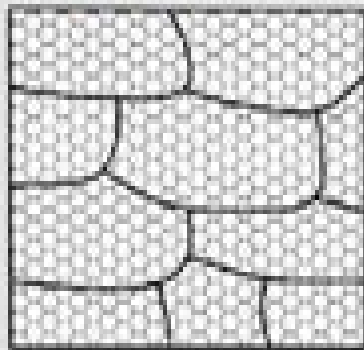


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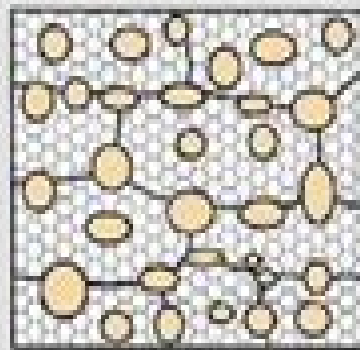
Deformed state

High defect density
High internal stresses



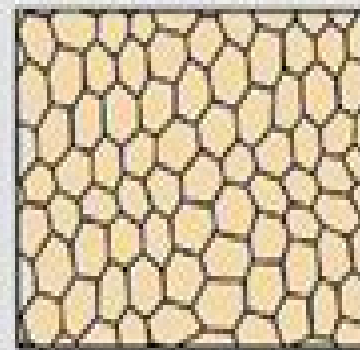
Recovered

Partial defect annihilation
and rearrangement



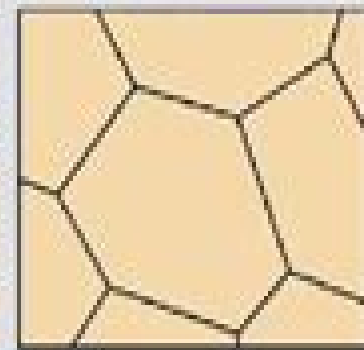
Partially recrystallized

Moving grain boundaries
Sweeping substructure



Fully recrystallized

Deformation substructure
removed



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**Leszek A. Dobrzanski, Menachem
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Recrystallization and Grain Growth III, 2007 **Recrystallization and Related Annealing Phenomena** F.J. Humphreys, M. Hatherly, 2012-12-02 The annealing of deformed materials is of both technological importance and scientific interest The phenomena have been most widely studied in metals although they occur in all crystalline materials such as the natural deformation of rocks and the processing of technical ceramics Research is mainly driven by the requirements of industry and where appropriate the book discusses the extent to which we are able to formulate quantitative physically based models which can be applied to metal forming processes The subjects treated in this book are all active research areas and form a major part of at least four regular international conference series However there have only been two monographs published in recent times on the subject of recrystallization the latest nearly 20 years ago Since that time considerable advances have been made both in our understanding of the subject and in the techniques available to the researcher The book covers recovery recrystallization and grain growth in depth including specific chapters on ordered materials two phase alloys annealing textures and annealing during and after hot working Also contained are treatments of the deformed state and the structure and mobility of grain boundaries technologically important examples and a chapter on computer simulation

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Norbert Hort, Suveen Mathaudhu, Neale Neelameggham, Martyn Alderman, 2016-12-09 The Magnesium Technology Symposium the event on which this volume is based is one of the largest yearly gatherings of magnesium experts in the world Papers reflect all aspects of the field including primary production to applications recycling basic research findings and industrialization Readers will find broad coverage of current topics including alloys and their properties cast products and processing wrought products and processing corrosion and surface finishing ecology and more New and emerging applications in such areas as hydrogen storage are also examined **Recrystallization in Materials Processing** Vadim

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Annealing Phenomena Anthony Rollett, Gregory S. Rohrer, John Humphreys, 2017-07-24 Recrystallization and Related Annealing Phenomena Third Edition fulfills the information needs of materials scientists in both industry and academia The subjects treated in the book are all active research areas forming a major part of at least four regular international conference series This new third edition ensures the reader has access to the latest findings and is essential reading to those working in the forefront of research in universities and laboratories For those in industry the book highlights applications of the research and technology exploring in particular the significant progress made recently in key areas such as deformed state including deformation to very large strains the characterization of microstructures by electron backscatter diffraction the modeling and simulation of annealing and continuous recrystallization Includes over 50% of new revised and updated material highlighting the significant recent literature results in grain growth in non crystallizing systems 3D characterization techniques quantitative modeling techniques and all new appendices on texture and measurements Contains synthesized detailed coverage from leading authors that bridge the gap between theory and practice Includes a critical level of synthesis and pedagogy with an authored rather than edited volume

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