



Grain Boundary Migration in Metals: Thermodynamics, Kinetics, Applications (Materials Science & Technology)

Gunter Gottstein, Lasar S. Shvindlerman

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The behavior of adjacent materials at the boundary where they meet is an essential aspect of creating new engineering materials. Grain Boundary Migration in Metals is an authoritative account of the physics of grain boundary motion, written by two highly respected researchers. They provide a comprehensive overview of current knowledge regarding the migration process and how it affects microstructure evolution, focusing their treatment exclusively on the properties and behavior of grain boundaries with well defined geometry and crystallography. With their emphasis on applications-such as the characterization of microstructure and texture, recrystallization, and grain growth-the authors effectively fill the gap between the physics of grain boundary motion and its engineering practicality.

The need for better microstructural design motivates permanent thrust for research in the field, and continued rapid progress appears inevitable. Grain Boundary Migration in Metals provides a solid foundation in the phenomena and serves as a valuable reference for professionals in materials science, solid state physics, and any industry engaged in metals production and the heat treatment of metals and alloys.



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