



# Dislocations: International Series of Monographs on Solid State Physics

*J. Friedel*

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Dislocations deals with the main properties of dislocations, including motion, climb, and vacancies. Topics covered include the elastic theory of dislocations, imperfect dislocations, and crystal growth, along with dislocation networks, annealing, and grain boundaries. The interaction of dislocations with other defects is also discussed.

This book is comprised of 17 chapters and begins with an overview of the general properties of dislocations, with emphasis on perfect and real crystals and the general case for translation dislocations. The reader is then introduced to the motion of dislocations, including glide; vacancies and interstitial atoms; dislocation climb; imperfect dislocations and surfaces of misfit; and crystal growth, including growth from a liquid phase. The next section is devoted to the more or less complex networks of dislocations that can be formed in crystals, and to the plastic properties corresponding to these arrays. The remaining chapters explore the interactions of dislocations with other crystalline defects, primarily impurity atoms.

This monograph is intended for physicists, metallurgists, materials scientists, research and engineering students, and research engineers.



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