



# Elementary Dislocation Theory

By Johannes Weertman, Julia R. Weertman

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This classic text of elementary dislocation theory has been reprinted to fulfill persistent demand. Because it approaches elementary dislocation theory from its most basic level, the material contained in the volume is as up-to-date as when it was first published. The text addresses many aspects of dislocation theory, including the nature of dislocations, Burgers vectors, motion and its impact on dislocations, internal stresses of dislocations, and multiplication of dislocations. The topics of this text are fundamental to the theory of dislocation behavior. Because dislocation is now widely recognized as a key factor determining the behavior of crystalline solids, specialists in electronics materials, as well as fracture mechanics, and materials science and engineering should have a solid grounding in this field. A large number of problems is provided in the text.

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### Editorial Review

#### Review

"The new edition by Oxford University Press will be warmly welcomed. . . . what the book does cover, it covers very well. . . . anyone working with dislocations will want to have a copy of this book. It is strongly recommended as supplementary reading for any introductory course on defects.

Oxford University Press should be applauded for rescuing this classic." --Microscopy Research and Technique

"Classic. . . . addresses fundamental aspects of dislocation theory. This book should certainly be of interest to faculty offering an undergraduate course in dislocation theory, or to researchers with little knowledge of mechanics and dislocation theory." --Condensed Matter News

"It is indeed a boon to students of materials that this fine book . . . has now been reprinted by Oxford University Press. The book is just as pertinent now as it was in 1964 since it very clearly teaches the essential concepts about dislocations at a basic level. This text is a must for the personal library of every materials person, including the old timers whose copies no doubt are by now in tatters from much use." --Journal of the Minerals, Metals and Materials Society

#### From the Back Cover

The topics of this text are fundamental to the theory of dislocation behavior. Today knowledge of this theory is essential of a materials scientist or engineer, a specialist in electronics materials or in fracture mechanics. At the time we entered to materials profession it was otherwise. Some senior metallurgists of high repute were quite antagonists to the idea of dislocations, did not believe they are of any importance, did not know much about them, and, unlike present-day workers, did not have the opportunity to see their existence verified by electron microscopes. The dislocation now is recognized as a key factor determining the behavior of crystalline solids.

#### About the Author

Johannes Weertman and Julia R. Weertman are both at Northwestern University.

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**Russell Stringer:**

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