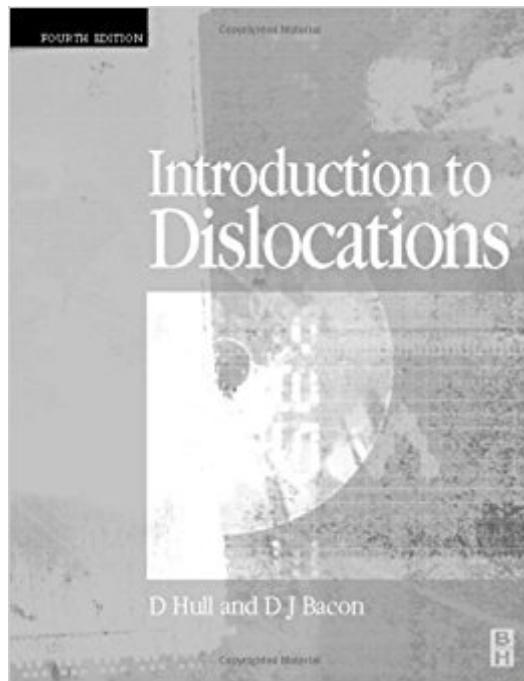


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Introduction To Dislocations, Fourth Edition



Synopsis

Introduction to Dislocations was first published in 1965 in a series aimed at undergraduate and postgraduate students in metallurgy and materials science and related disciplines. At the time, the subject was maturing and it was expected that 'dislocation concepts' would remain a core discipline for a very long time. As expected, the book has been, and remains, an important undergraduate text all over the world. A wider range of materials has emerged since 1965, most notably in the field of electronics and micro-engineering. The principles of dislocation theory still apply but some of the detail requires further treatment. This fourth edition provides an essential basis for an understanding of many of the physical and mechanical properties of crystalline solids. This new edition has been extensively revised and updated to reflect developments in the understanding of the subject, whilst retaining the clarity and comprehensibility of the previous editions.

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'As we grow older, we tend to grow fatter but wiser. This is certainly the case of the 4th edition of 'Introduction to Dislocations'.....the book is excellent value and there is no excuse why every student of metallurgy should not be familiar with its contents, and every researcher have it readily to hand.' Steel Times, September 2001 'Professor Hull has written a book which is so carefully constructed and so outstandingly useful to such a wide range of students that it is difficult to find superlatives to praise it.' The Faraday Society 'One of the most striking advantages of the book is the concise and lucid text...There are many books dealing with dislocations but only one up-to-date

introduction. It is warmly recommended to teachers and students in solid state sciences' Crystallization Technology

A wider range of materials has emerged since 1965, most notably in the field of electronics and micro-engineering. The principles of dislocation theory still apply but some of the detail requires further treatment. This fourth edition provides an essential basis for an understanding of many of the physical and mechanical properties of crystalline solids. This new edition has been extensively revised and updated to reflect developments in the understanding of the subject, whilst retaining the clarity and comprehensibility of the previous editions.

This is an excellent introductory text on dislocation theory. The author does a good job of outlining fundamental materials principles before jumping into defects. The diagrams and images used are top-notch -- if only one could capture such good examples in practice! The latter half of the text covers some information on other types of defects (tilt boundaries, stacking faults) as well as numerous characterization techniques. Recommended!

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