

## Introduction To Dislocations

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### Introduction To Dislocations

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### Introduction to Dislocations : Derek Hull : 9780080966724

Introduction to Dislocations This page intentionally left blank Introduction to Dislocations Fifth Edition D. Hull and D. J. Bacon Department of Engineering, Materials Science and Engineering, University of Liverpool, UK

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Hull and Bacon, Introduction to Dislocations (4th edition), Pergamon, 2001. A comprehensive text covering material at introductory through to advanced level. Cahn, The Coming of Materials Science, Pergamon, 2001 A 'history and portrait' of the subject, including the story of the emergence of the dislocation concept.

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Generating dislocations. When metals are subjected to cold working (deformation at temperatures which are relatively low as compared to the material's absolute melting temperature, i.e., typically less than ) the dislocation density increases due to the formation of new dislocations.The consequent increasing overlap between the strain fields of adjacent dislocations gradually increases the ...

### Dislocation - Wikipedia

Dislocations - Introduction ¼Theoretical strength of perfect crystals ¼History of dislocations ¼Dislocations in continuum mechanics: Volterra construction ¼Glide in crystals as motion of dislocations ¼Dislocation line, Burgers vector, Burgers circuit ¼Dislocation nodes and loops References: Hull and Bacon, Ch. 1.4 Kelly and Knowles, Ch. 8

### Dislocations - Introduction

Introduction to Dislocations Hull D., Bacon D.J. Year: 2011 Edition: 5ed. Publisher: BH Language: english Pages: 268. ISBN 10: 0080966721 File: PDF, 3.50 MB Preview. Send-to-Kindle or Email . Please login to your account first; Need help? Please read our short guide ...

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dislocations. The minimum stress required to move a dislocation is called the Peierls-Nabarro (PN) stress. Dislocations may also move under the influence of other internal stress fields produced by other dislocations, precipitates, or those by phase transformations etc. Dislocations are attracted by free- surfaces and interfaces with softer

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