

Introduction To Elasticity Theory For Crystal Defects - R. W. Balluffi

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Self-sufficient and user-friendly, this book provides a complete introduction to the anisotropic elasticity theory necessary to model a wide range of crystal defects. Assuming little prior knowledge of the subject, the reader is first walked through the required basic mathematical techniques and methods. This is followed by treatments of point, line, planar and volume type defects such as vacancies, dislocations, grain boundaries, inhomogeneities and inclusions. Included are analyses of their elastic fields, interactions with imposed stresses and image stresses, and interactions with other defects, all employing the basic methods introduced earlier. This step by step approach, aided by numerous exercises with solutions provided, strengthens the reader's understanding of the principles involved, extending it well beyond the immediate scope of the book. As the first comprehensive review of anisotropic elasticity theory for crystal defects, this text is ideal for both graduate students and professional researchers. Author: Balluffi, R. W. Publisher: Cambridge University Press Illustration: N Language: ENG Title: Introduction to Elasticity Theory for Crystal Defects Pages: 00448 (Encrypted PDF) On Sale: 2012-01-31 SKU-13/ISBN: 9781107012554 Category: Science : Physics - Crystallography Category: Technology & Engineering : Material Science

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