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Autore	Schmalzried Hermann
Titolo	Chemical kinetics of solids [[electronic resource] /] / Hermann Schmalzried
Pubbl/distr/stampa	Weinheim ; ; New York, : VCH, c1995
ISBN	1-281-75869-8 9786611758691 3-527-61553-9 3-527-61552-0
Descrizione fisica	1 online resource (452 p.)
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Soggetti	Solid state chemistry Chemical kinetics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Chemical Kinetics of Solids; Preface; Table of Contents; Symbols and Definitions; 1 Introduction; 1.1 Scope; 1.2 Historical Remarks; 1.3 Four Basic Kinetic Situations; 1.3.1 Homogeneous Reactions: Point Defect Relaxation; 1.3.2 Steady State Flux of Point Defects in a Binary Compound; 1.3.3 The Kinetics of an Interface Reaction; 1.3.4 Kinetics of Compound Formation: $A + B = AB$; References; 2 Thermodynamics of Point Defects; 2.1 Introduction; 2.2 Thermodynamics of Crystals; 2.2.1 Phenomenological Approach; 2.2.2 Remarks on Statistical Thermodynamics of Point Defects 2.3 Some Practical Aspects of Point Defect Thermodynamics 2.4 Point Defects in Solid Solutions; 2.5 Conclusions; References; 3 One- and Two-Dimensional Defects in Crystals; 3.1 Introduction; 3.2 Dislocations; 3.2.1 Strain, Stress, and Energy; 3.2.2 Kinetic Effects Due to Dislocations; 3.3 Grain Boundaries; 3.3.1 Structure and Energy of Grain Boundaries; 3.3.2 Phase Boundaries in Solids; 3.4 Mobility of Dislocations, Grain Boundaries, and Phase Boundaries; References; 4 Basic Kinetic Concepts and Situations; 4.1 Introduction; 4.1.1 Systematics of Solid State Chemical Processes

4.2 The Concepts of Irreversible Thermodynamics 4.2.1 Structure Element Fluxes; 4.3 Diffusion; 4.3.1 Introduction; 4.3.2 Fickian Transport; 4.3.3 Chemical Diffusion; 4.4 Transport in Ionic Solids; 4.4.1 Introduction; 4.4.2 Transport in Binary Ionic Crystals AX; 4.5 Transport Across Phase Boundaries; 4.5.1 Introduction. Equilibrium Phase Boundaries; 4.5.2 Non-Equilibrium Phase Boundaries; 4.6 Transport in Semiconductors; Junctions; 4.6.1 Introduction; 4.6.2 The (p-n) Junction; 4.7 Basic Rate Equations for Homogeneous Reactions; 4.7.1 Introduction; 4.7.2 Rate Equations; References

5 Kinetics and Dynamics. Local Equilibrium 5.1 Introduction; 5.1.1 Linear Response; 5.1.2 Transition State; 5.1.3 Brownian Motion; 5.2 Kinetic Parameters and Dynamics; 5.2.1 Phenomenological Coefficients and Kinetic Theory; 5.2.2 Correlation of Atomic Jumps; 5.2.3 Conductivity of Ionic Crystals: Frequency Dependence; 5.2.4 Diffusive Motion and Phonons; 5.3 Relaxation of Irregular Structure Elements; 5.3.1 Introduction; 5.3.2 Relaxation of Structure Elements in Nonstoichiometric Compounds A₁₋₀; 5.3.3 Relaxation of Intrinsic Disorder; 5.4 Defect Equilibration During Interdiffusion 5.4.1 The Atomistics of Interdiffusion 5.4.2 The Kirkendall Effect; 5.4.3 Local Defect Equilibration During Interdiffusion; 5.4.4 Interdiffusion of Heterovalent Compounds; References; 6 Heterogeneous Solid State Reactions; 6.1 Introduction; 6.2 Nucleation and Initial Growth; 6.2.1 Introductory Remarks; 6.2.2 Nucleation Kinetics; 6.2.3 Early Growth; 6.3 Compound Formation; 6.3.1 Formation Kinetics of Double Salts; 6.3.2 Formation of Multiphase Products; 6.4 Displacement Reactions; 6.5 Powder Reactions; 6.5.1 General; 6.5.2 Self-propagating Exothermic Powder Reactions; 6.6 Interface Rate Control 6.7 Thermal Decomposition of Solids

Sommario/riassunto

Many different chemical processes take place inside solids or at solid surfaces and interfaces. However, their quantitative description sometimes seems difficult to understand. This book by Professor Schmalzried, author of the eminently successful Solid State Reactions; bridges the gap between the 'physical' and 'chemical' approaches to this subject because it is written in a language which both sides understand. For the first time, a comprehensive coverage of the rapidly developing field of Solid State Kinetics is available. The topics covered in this book go far beyond diffusional tra

2. Record Nr.	UNINA9910777548103321
Autore	Duke Daniel Linden
Titolo	Education empire : the evolution of an excellent suburban school system / / Daniel L. Duke
Pubbl/distr/stampa	Albany, NY : , : State University of New York Press, , 2005 ©2005
ISBN	0-7914-8298-7 1-4237-4769-0
Descrizione fisica	1 online resource (xv, 199 pages) : illustrations
Collana	SUNY series, educational leadership
Disciplina	370/.9755/291
Soggetti	School management and organization - Virginia - Fairfax County Suburban schools - Virginia - Fairfax County
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references (p. 175-191) and index.
Nota di contenuto	A classroom a day A ten-year trial Growing bigger and more diverse The intensification of educational politics Good isn't good enough It takes an excellent school system to ensure excellent schools Fairfax County Public Schools and the future of suburban education

3. Record Nr.	UNINA9910777098603321
Autore	Brown Martyn (Martyn David)
Titolo	Politics of forgetting : New Zealand, Greece and Britain at war / / Martyn Brown
Pubbl/distr/stampa	North Melbourne, Vic : , : Australian Scholarly Publishing Pty Ltd, , [2019] ©2019
ISBN	9781922952257 9781925801682
Edizione	[1st ed.]
Descrizione fisica	1 online resource (430 pages)
Disciplina	940.5409495
Soggetti	World War, 1939-1945 - Greece Greece History 20th century Greece Foreign relations New Zealand New Zealand Foreign relations Greece Greece Foreign relations Great Britain Great Britain Foreign relations Greece
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references (pages [286]-403) and index.
Nota di contenuto	The 'Puzzle' -- Two Countries a World Apart -- Giving Meaning to the Losses of 1941 -- After Crete: Soldiering, Mutiny and Secret Operations -- Humanitarianism and Retribution -- Taking Sides -- Reality versus Remembering
Sommario/riassunto	Greece was a poor country in turmoil and pain during the 1940s. A military dictatorship was followed by invasion and terrifying occupation by Germany and its allies, starvation, civil war, political unrest and mutiny in its free military armed forces. New Zealand entered this arena and found a bond with a people that it still celebrates to this day. Absent is the complex, divisive and sometimes violent and surreal relationship between the two countries and the inescapable influence of Britain. Their story stretches from the mountains and open country of Greece and Crete to Middle East deserts, autumn-swept plains of Italy, and the blood-splattered streets of post-liberated Athens. Ironically New Zealand has forgotten the unpalatable but also sacrificed

something that would have enhanced its own national storytelling about the war.
