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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 A_{1-x}O; 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.	UNISA996210795203316
Autore	Visser Leontine
Titolo	Governing New Guinea : an oral history of Papuan administrators, 1950-1990 // Koninklijk Instituut, Voor Taal-, Land-, en Volkenkunde ; edited by Leontine Visser
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Collana	Koninklijk Instituut voor Taal-, Land- en Volkenkunde
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Nota di contenuto	The everyday life of Papuan civil servants 1950-1990 / Leontine Visser -- Do not insult Papuans in front of me / Trajanus S. Boekorsjom -- Accused of being a separatist / Dolf Faidiban -- They falsified my name / Arnold Mampioer -- The three-month war in panai / Gerrit Jan lauri -- Two keys to attracting the baliem people / Dorus Rumbiak -- Meeting the tree people / Alex Wamafma -- Koteka are better than pants / Joel Boray -- Surprised to see beggars / Luther Saroy -- Clearing an airfield with wooden logs / Florenz Imbiri -- Corpse eating and an illicit cult / Lambert Marani -- I was appointed governor / Barnabas Suebu -- Between Isaac Hindom and Acub Zainal / Ismael Bauw -- The role of teachers in governing communities / Alex Sawaki and Marthin Senandi -- We were not given access to proper education / Marthin Senandi -- Twins must be killed / Dirk Bernardus Urus -- Feeling guilty about helping Freeport / Amos Yap -- Tears on the plane / Amapos Jos Marey.
Sommario/riassunto	This is the first time that indigenous Papuan administrators share with an international public their experiences governing their country. These administrators were the brokers of development. After graduating from

the School for Indigenous Administrators (OSIBA) they served in the Dutch administration until 1962. The period 1962-1969 stands out as turbulent and dangerous, and for many curtailed their professional careers. These administrators' having been in active service until their retirement in the early 1990s allows for a complete recounting of political and administrative transformations under the Indonesian governance of Irian Jaya/Papua. This book brings together 17 oral histories of the everyday life of Papuan civil servants, including their relationships with superiors and colleagues, the murder of a Dutch administrator, their translation of 'development' to the Papuan people, the organization of their first democratic institutions, and the actual political and economic conditions leading up to the so-called Act of Free Choice. Finally, they share their experiences in the UNTEA and Indonesian government organization. Leontine Visser is Professor of Development Anthropology at Wageningen University. Her research focuses on governance and natural resources management in eastern Indonesia.
