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Nota di contenuto	Streetsmart Financial Basics for Nonprofit Managers, Third Edition; Contents; Preface; Acknowledgments; Note to Reader; Part One: Analysis; Chapter 1: Organizational Structure: Programs and Corporations; Chapter 2: Mission: Managing Your Two Bottom Lines; Chapter 3: Accounting as a Second Language-A Nine-Point Program; Chapter 4: Assets Are for Boards, Activities Are for Managers; Chapter 5: Balance Sheets: How They Get That Way; Chapter 6: Financial Analysis: A Few Diagnostic Tools; Part Two: Accounting; Chapter 7: Nonprofit Accounting: Acknowledging the Strings Attached Chapter 8: Cost Accounting: How Much Does It Cost?Chapter 9: Auditing: Choosing and Using an Auditor; Part Three: Operations; Chapter 10: Cash Flow Management: Why Cash Is King; Chapter 11: Capital: Why Capital Is Not a Four-Letter Word; Chapter 12: Budgeting: Taming the Budget Beast; Chapter 13: Indirect Costs and Other Despised Items; Chapter 14: Pricing: How Much Should It Cost?; Chapter 15: Profit: Why and How Much?; Chapter 16: To Raise More Money, Think Cows; Part Four: Control; Chapter 17: Insurance: The Maddeningly Complicated Art of Covering Your Assets Chapter 18: Internal Controls for External GoalsChapter 19: Enron

Spawn; Chapter 20: Management Controls: Toward Accountability for Performance; Appendix A: A Financial Management Cultural Primer; Appendix B: Budget Bloopers; Appendix C: Using the Web Site; Part One: Analysis; Part Three: Operations; Part Four: Control; System Requirements; Using the Files; User Assistance; Index

Sommario/riassunto

Praise for Streetsmart Financial Basics for Nonprofit Managers, Third Edition ""Tom McLaughlin is a proven master at making the daunting concepts of nonprofit financial management clear and engaging. This book is a superb introduction for new nonprofit executives, board members, and students. It is also an excellent refresher and reference for those of us who have been around the nonprofit sector for a while. It is well written, concise, and thought provoking.""-J. Gregory Dees, Professor of the Practice of Social Entrepreneurship and Nonprofit Management at Duke Uni

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Nota di contenuto

High Temperature Strain of Metals and Alloys; Contents; Introduction; 1 Macroscopic Characteristics of Strain of Metallic Materials at High Temperatures; 2 The Experimental Equipment and the in situ X-ray Investigation Technique; 2.1 Experimental Installation; 2.2 Measurement Procedure; 2.3 Measurements of Structural Parameters; 2.4 Diffraction Electron Microscopy; 2.5 Amplitude of Atomic Vibrations; 2.6 Materials under Investigation; 2.7 Summary; 3 Structural Parameters in High-Temperature Deformed Metals; 3.1 Evolution of Structural Parameters; 3.2 Dislocation Structure 3.3 Distances between Dislocations in Sub-boundaries 3.4 Sub-boundaries as Dislocation Sources and Obstacles; 3.5 Dislocations inside Subgrains; 3.6 Vacancy Loops and Helicoids; 3.7 Total Combination of Structural Peculiarities of High-temperature Deformation; 3.8 Summary; 4 Physical Mechanism and Structural Model of Strain at High Temperatures; 4.1 Physical Model and Theory; 4.2 Velocity of Dislocations; 4.3 Dislocation Density; 4.4 Rate of the Steady-State Creep; 4.5 Effect of Alloying: Relationship between Creep Rate and Mean-Square Atomic Amplitudes 4.6 Formation of Jogs. Low-Angle Sub-boundaries in f.c.c. and b.c.c. Crystal Lattices 4.7 Significance of the Stacking Faults Energy; 4.8 Stability of Dislocation Sub-boundaries; 4.9 Scope of Application of the Theory; 4.10 Summary; 5 Simulation of the Evolution of Parameters during Deformation; 5.1 Parameters of the Physical Model; 5.2 Equations; 5.2.1 Strain Rate; 5.2.2 Change in the Dislocation Density; 5.2.3 The Dislocation Slip Velocity; 5.2.4 The Dislocation Climb Velocity; 5.2.5 The Dislocation Spacing in Sub-boundaries; 5.2.6 Variation of the Subgrain Size 5.2.7 System of Differential Equations 5.3 Results of Simulation: Changes in the Structural Parameters; 5.4 Density of Dislocations during Stationary Creep; 5.5 Summary; 6 High-temperature Deformation of Superalloys; 6.1 Phase in Superalloys; 6.2 Changes in the Matrix of Alloys during Strain; 6.3 Interaction of Dislocations and Particles of the Hardening Phase; 6.4 Dependence of Creep Rate on Stress. The Average Length of the Activated Dislocation Segments; 6.5 Mechanism of Strain and the Creep Rate Equation; 6.6 Composition of the Phase and Mean-square Amplitudes of Atomic Vibrations 6.7 Influence of the Particle Size and Concentration 6.8 The Prediction of Properties on the Basis of Integrated Databases; 6.9 Summary; 7 Single Crystals of Superalloys; 7.1 Effect of Orientation on Properties; 7.2 Deformation of Single-crystal Superalloys at Lower Temperatures and Higher Stress; 7.3 Deformation of Single-crystal Superalloys at Higher Temperatures and Lower Stress; 7.4 On the Composition of Superalloys; 7.5 Rafting; 7.6 Effect of Composition and Temperature on / Misfit; 7.7 Other Creep Equations; 7.8 Summary; 8 High-temperature Deformation of Some Refractory Metals 8.1 The Creep Behavior

Sommario/riassunto

Creep and fatigue are the most prevalent causes of rupture in superalloys, which are important materials for industrial usage, e.g. in engines and turbine blades in aerospace or in energy producing industries. As temperature increases, atom mobility becomes appreciable, affecting a number of metal and alloy properties. It is thus vital to find new characterization methods that allow an understanding of the fundamental physics of creep in these materials as well as in pure metals. Here, the author shows how new in situ X-ray investigations and transmission electron microscope studies lead to