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Pubbl/distr/stampa	Lincoln, Nebraska : , : Department of Agricultural Meteorology, Institute of Agriculture and Natural Resources, University of Nebraska-Lincoln [Washington, D.C.] : , : [National Aeronautics and Space Administration], , January 1993
Descrizione fisica	1 online resource (91 pages) : illustrations
Collana	NASA-CR ; ; 191717
Soggetti	Heat flux Thermal radiation Albedo Emittance Reflectance Reflected waves Remote sensing
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Titolo	Handbook of recycling : state of the art for practitioners, analysts, and scientists / / edited by Ernst Worrell ; Markus Reuter
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ISBN	1-78402-553-4 0-12-396506-3
Edizione	[1st edition]
Descrizione fisica	1 online resource (595 p.)
Disciplina	628.4458
Soggetti	Recycling (Waste, etc.)
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Front Cover; HANDBOOK OF RECYCLING: STATE-OF-THE-ART FOR PRACTITIONERS, ANALYSTS, AND SCIENTISTSEDITED BYERNST WORRELL AND MARKUS A. REUTE ...; Copyright; Contents; List of Contributors; PART I - RECYCLING IN CONTEXT; Chapter 1 - Recycling: A Key Factor for Resource Efficiency; References; Chapter 2 - Definitions and Terminology; 2.1 INTRODUCTION; 2.2 DEFINING RECYCLING; 2.3 MATERIALS AND PRODUCTS; 2.4 APPLYING THE PRODUCT-CENTRIC APPROACH-METALS; References; Chapter 3 - Recycling in Context; 3.1 INTRODUCTION; 3.2 METAL RECYCLING CONSIDERATIONS AND TECHNOLOGIES 3.3 DEFINING RECYCLING STATISTICS3.4 PROCESS EFFICIENCIES AND RECYCLING RATE CONSTRAINTS; 3.5 PERSPECTIVES ON CURRENT RECYCLING STATISTICS; 3.6 SUMMARY; References; Chapter 4 - Recycling Rare Metals; 4.1 INTRODUCTION; 4.2 INDIUM; 4.3 OTHER EXAMPLES OF RARE METALS; 4.4 THE DISTANT FUTURE: GEORGESCU'S LAST LAUGH?; References; Chapter 5 - Theory and Tools of Physical Separation/Recycling; 5.1 RECYCLING PROCESS; 5.2 PARTICLE SIZE; 5.3 PULP RHEOLOGY; 5.4 PROPERTIES AND PROPERTY SPACES; 5.5 SAMPLING; 5.6 MASS BALANCES AND PROCESS DYNAMICS; 5.7 MATERIAL BALANCING; 5.8 LIBERATION

5.9 GRADE-RECOVERY CURVESReferences; PART II - RECYCLING - APPLICATION & TECHNOLOGY; Chapter 6 - Recycling of Steel; 6.1 INTRODUCTION; 6.2 SCRAP PROCESSING AND MATERIAL STREAMS FROM SCRAP PROCESSING; 6.3 THE PROCESSES USED FOR SMELTING STEEL SCRAP; 6.4 TRENDS IN QUALITY OF THE SCRAP AVAILABLE FOR STEEL PRODUCTION; 6.5 HINDRANCES FOR RECYCLING-TRAMP ELEMENTS; 6.6 PURIFICATION OF SCRAP; 6.7 TO LIVE WITH IMPURITIES; 6.8 MEASURES TO SECURE SUSTAINABLE RECYCLING OF STEEL; References; Chapter 7 - Copper Recycling; 7.1 INTRODUCTION; 7.2 RAW MATERIAL FOR COPPER RECYCLING; 7.3 PROCESSES FOR RECYCLING
7.4 CHALLENGES IN COPPER RECYCLING7.5 CONCLUSIONS; References; Chapter 8 - Lead Recycling; 8.1 INTRODUCTION; 8.2 THE LEAD-ACID BATTERY; 8.3 BATTERY PREPROCESSING; 8.4 SMELTING; 8.5 ALTERNATIVE APPROACHES; 8.6 REFINING; 8.7 CONCLUSIONS AND OUTLOOK; References; Chapter 9 - Zinc and Residue Recycling; 9.1 INTRODUCTION; 9.2 ZINC OXIDE PRODUCTION FROM DROSSES; 9.3 ELECTRIC ARC FURNACE DUST AND OTHER PB, ZN, CU-CONTAINING RESIDUES; 9.4 ZINC RECYCLING FROM COPPER INDUSTRY DUSTS; 9.5 FUMING OF SLAGS FROM LEAD METALLURGY; References; Chapter 10 - Recycling of Rare Metals; 10.1 PRECIOUS METALS
10.2 RARE EARTH METALS10.3 ELECTRONIC METALS; 10.4 REFRACTORY METALS (FERRO-ALLOYS METALS, SPECIALTY METALS); 10.5 OTHER METALS; References; Chapter 11 - Recycling of Lumber; 11.1 INTRODUCTION; 11.2 BACKGROUND; 11.3 KEY ISSUES IN POST-USE MANAGEMENT OF WOOD; 11.4 CASE STUDY SCENARIOS; 11.5 SUMMARY; References; Chapter 12 - Paper Recycling; 12.1 IMPORTANT FACTS ABOUT PAPER RECYCLING; 12.2 STOCK PREPARATION FOR PAPER RECYCLING; References; Chapter 13 - Plastic Recycling; 13.1 INTRODUCTION; 13.2 USE OF PLASTICS; 13.3 PLASTIC RECYCLING; 13.4 MECHANICAL RECYCLING; 13.5 IMPACT OF RECYCLING
13.6 CONCLUSIONS AND OUTLOOK

Sommario/riassunto

Handbook of Recycling is an authoritative review of the current state-of-the-art of recycling, reuse and reclamation processes commonly implemented today and how they interact with one another. The book addresses several material flows, including iron, steel, aluminum and other metals, pulp and paper, plastics, glass, construction materials, industrial by-products, and more. It also details various recycling technologies as well as recovery and collection techniques. To completely round out the picture of recycling, the book considers policy and economic implications, including the i