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Electronic Waste Oct 03 2019 Discover the latest technologies in the pursuit of zero-waste solutions in the electronics industry In *Electronic Waste: Recycling and Reprocessing for a Sustainable Future*, a team of expert sustainability researchers delivers a collection of resources that thoroughly examine methods for extracting value from electronic waste while aiming for a zero-waste scenario in industrial production. The book discusses the manufacturing and use of materials in electronic devices while presenting an overview of separation methods for industrial materials. Readers will also benefit from a global overview of various national and international regulations related to the topic of electronic and electrical waste. A must-read resource for scientists and engineers working in the production and development of electronic devices, the authors provide comprehensive overviews of the benefits of achieving a zero-waste solution in electronic and electrical waste, as well as the risks posed by incorrectly disposed of electronic waste. Readers will enjoy: An introduction to electronic waste, including the opportunities presented by zero-waste technologies and solutions Explorations of e-waste management and practices in developed and developing countries and e-waste transboundary movement regulations in a variety of jurisdictions Practical discussions of approaches for estimating e-waste generation and the materials used in electronic equipment and manufacturing perspectives In-depth treatments of various recycling technologies, including physical separation, pyrometallurgy, hydrometallurgy, and biohydrometallurgy Perfect for materials scientists, electronic engineers, and metal processing professionals, *Electronic Waste: Recycling and Reprocessing for a Sustainable Future* will also earn a place in the libraries of industrial chemists and professionals working in organizations that use large amounts of chemicals or produce electronic waste.

Waste, Recycling and Reuse Jan 18 2021 Waste problem - Dealing with waste - Glass - Metals - Plastic, textiles and paper - Cars and e-waste - Waste and the developing world - Organic waste - Looking to the future.

E-waste Recycling and Management Apr 20 2021 This book gives up-to-date information and broad views on e-waste recycling and management using the latest techniques for industrialist and academicians. It describes the problems of e-waste generated by all global living communities and its impact on our ecosystems and discusses recycling techniques in detail to reduce its effect as well as proper management of e-waste to save the environment. It also considers future technological expectations from e-waste recycling and management technologies.

Resource Recovery and Recycling from Metallurgical Wastes Aug 25 2021 Resource recovery and recycling from millions of tons of wastes produced from industrial activities is a continuing challenge for environmental engineers and researchers. Demand for conservation of resources, reduction in the quantity of waste and sustainable development with environmental control has been growing in every part of the world. *Resource Recovery and Recycling from Metallurgical Wastes* brings together the currently used techniques of waste processing and recycling, their applications with practical examples and economic potentials of the processes. Emphasis is on resource recovery by appropriate treatment and techniques. Material on the subject is scattered in waste management and environmental related journals, conference volumes and government departmental technical reports. This work serves as a source book of information and as an educational technical reference for practicing scientists and engineers, as well as for students. Describes the currently used and potential techniques for the recovery of valuable resources from mineral and metallurgical wastes Discusses the applications to specific kinds of wastes with examples from current practices, as well as the economics of the processes Presents recent and emerging technologies of potentials in metal recycling and by-product utilization

Organic Waste Recycling Aug 13 2020 This book is a guide to the principles and practice of organic waste recycling, it addresses low-cost waste recycling technologies utilising microbial and natural processes. A wide range of topics is covered, opening with a discussion of the need for and the problems involved in organic waste recycling. The characteristics of a number of organic waste materials from a variety of sources, and the pollution and health risks which may be associated with them are described. The central core of the book presents a broad range of technologies used in the recycling of organic waste materials to produce valuable products such as : fertiliser, biogas, algae, fish and irrigated crops. Each recycling technology is described with respect to : objectives, benefits and limitations, environmental requirements, design criteria of the process, use of recycled products and public health aspects. This second edition has been completely revised and up-dated. It includes new sections on: waste minimisation and clean technology, application of constructed wetlands and regulatory aspects of waste disposal and recycling. Case studies of successful waste recycling programs are included and exercises for solving both theoretical and practical problems are given.

Waste and Recycling Challenges Jun 22 2021 Describes how large amounts of waste are created today, how to recycle effectively, and why it is important to reduce or eliminate waste.

Garbage and Recycling Feb 05 2020 Editor Candice L. Mancini uses a series of thought-provoking essays to take readers across the globe, exploring international issues relating to garbage and recycling. Is E-waste dangerous in India? Is the Nile being ruined by pollution? Is Serbia doing enough to focus on their waste problems? Is Bangladesh's capital swimming in waste? How is China turning trash into art? Readers will explore these questions. They will learn whether Mexico City is running out of places to dump waste and whether the U.S. has a serious issue with plastic bags. Other cultures explored include Canada, Japan, Australia, Spain, the Philippines, and Sweden. One final treat for readers is they'll explore garbage and recycling in space.

Recycling from Waste in Fashion and Textiles Nov 27 2021 The alarming level of greenhouse gases in the environment, fast depleting natural resources and the increasing level of industrial effluents, have made every single manufacturing activity come under the scrutiny of sustainability. When all kinds of waste such as clothes, furniture, carpets, televisions, shoes, paper, food wastes etc. end up in the landfill, only a few of them are naturally decomposed and thus a large majority remains as non-biodegradable. It is for this reason, efforts are concentrated to reduce the burden on earth by this waste, and as far as used textile products are concerned, there are now attempts to recycle or up-cycle. This book addresses the role of sustainability by using textile waste in fashion and textiles with respect to manufacturing, materials, as well as the economic and business challenges and opportunities it poses. This wide-ranging book comprises 19 chapters on the various topics including: · Solutions for sustainable fashion and textile industry · Agro and bio waste in the fashion industry · Innovating fashion brands by using textile waste · Waste in handloom textiles · Business paradigm shifting: 21st century fashion from recycling and upcycling · Utilization of natural waste for sustainable textile

coloration · Circular economy in fashion and textile from waste · Future pathways of waste utilization for fashion · Sustainable encapsulation of natural dyes from Plant waste for textiles · Agro-waste applications for bio-remediation of textile effluent

Waste Recycling Technologies for Nanomaterials Manufacturing Feb 28 2022 This book discusses the recent advances in the wastes recycling technologies to provide low-cost and alternative ways for nanomaterials production. It shows how carbon nanomaterials can be synthesized from different waste sources such as banana fibers, argan (*Argania spinosa*) seed shells, corn grains, camellia oleifera shell, sugar cane bagasse, oil palm (empty fruit bunches and leaves) and palm kernel shells. Several nanostructured metal oxides (MnO₂, Co₃O₄,....) can be synthesized via recycling of spent batteries. The recovered nanomaterials can be applied in many applications including: Energy (supercapacitors, solar cells, etc.) water treatments (heavy metal ions and dyes removal) and other applications. Spent battery and agriculture waste are rich precursors for metals and carbon, respectively. The book also explores the various recycling techniques, agriculture waste recycling, batteries recycling, and different applications of the recycled materials.

Plastics Waste Management Nov 03 2019 Recycling of polyurethane (PU) wastes is undertaken to minimise waste and reduce environmental pollution. In this book, these methods are investigated to find a suitable process for waste reduction, protection of the environment, and prevention of waste landfilling. This book reviews aspects from contemporary literature (including our research) focusing on these topics. Recently, progress has been done by the author's research team in chemical recycling of PU waste. Recycling methods are stated clearly, as well as use of instrumental methods such as nuclear magnetic resonance spectroscopy and Fourier-Transform infrared spectroscopy for characterisation and identification of recycling products. This book provides new and exciting vistas for finding adequate recycling methods as well as the starting materials and intermediates for PU products.

Recycling and the Politics of Urban Waste May 10 2020 First Published in 1994. Routledge is an imprint of Taylor & Francis, an informa company.

Understanding Plastics Recycling Dec 05 2019 This book shows the true and often-underestimated market potential of plastics recycling, with analysis from economic, ecological, and technical perspectives. It is aimed at both technical and non-technical readers, including decision makers in material suppliers, plastic product manufacturers, governmental agencies, educators, and anyone with a general interest in plastics recycling. An overview of waste handling systems with a focus on the U.S. market is provided. Different methods of waste handling are compared from both economic and ecological perspectives. Since plastic waste recycling is essential from an ecological point of view, common strategies and new approaches to both increase the recycling rate and improve recycling economically and technically are presented. This includes processing and material properties of recycled plastics. Finally, a worldwide outlook of plastic recycling is provided with analysis of additional worldwide markets, encompassing highly developed, fast-developing, and less developed countries. This revised and expanded second edition also contains a new section on fiber-reinforced plastics and considerations for recycling them as well as numerous updates on the data and the context analyzed throughout the book. The spreadsheets used in the economic analyses are also offered as a bonus for the reader to download from plus.hanser-fachbuch.de/en. True to the authors' mission, this book is printed on recycled paper.

Electronic Waste and Printed Circuit Board Recycling Technologies Dec 17 2020 This book covers state-of-the-art technologies, principles, methods and industrial applications of electronic waste (e-waste) and waste PCB (WPCB) recycling. It focuses on cutting-edge mechanical separation processes and pyro- and hydro-metallurgical treatment methods. De-soldering, selective dismantling, and dry separation methods (including the use of gravity, magnetic and electrostatic techniques) are discussed in detail, noting the patents related to each. The volume discusses the available industrial equipment and plant flowsheets used for WPCB recycling in detail, while addressing potential future directions of the field. This practical, comprehensive, and multidisciplinary reference will appeal to professionals throughout global industrial, academic and government institutions interested in addressing the growing problem of e-waste. Covers principles, methods and industrial applications of e-waste and PCB recycling; Details state-of-the-art mechanical separation processes and pyro- and hydro-metallurgical treatment methods; Describes the available industrial equipment used and plant flowsheets for PCB recycling and addresses potential future developments of this important field.

Waste Age and Recycling Times Jul 24 2021 This definitive Handbook, authored by the publishing division of the leading and the largest association in the field of waste management, provides information on virtually every aspect of recycling. The chapters, written by leading international authorities, cover such topics as collection of recyclables, recycling costs, safety in recycling facilities, available technology for collection and processing of waste products, and profitability of waste products. Introductory material in the form of "waste profiles" is included at the beginning of the Handbook, providing an excellent general reference on all of the various recyclables, from newspapers to batteries. The Handbook also covers legislative issues related to recycling, including legislation in Germany, France, Britain, and Canada, and how these overseas regulations affect recycling in the United States.

Electronic Waste Apr 08 2020 This book presents an overview of the characterization of electronic waste. In addition, processing techniques for the recovery of metals, polymers and ceramics are described. This book serves as a source of information and as an educational technical reference for practicing scientists and engineers, as well as for students.

Tire Waste and Recycling Jul 04 2022 Tire Waste and Recycling takes a methodical approach to the recycling of tires, providing a detailed understanding on how to manage, process, and turn waste tires into valuable materials and industrial applications. Sections cover fundamental aspects such as tire use, composition, trends, legislation, the current global situation, the possibilities for moving towards a circular economy, lifecycle options, treatment methods, and opportunities for re-use, recycling and recovery. Subsequent sections of the book focus on specific technologies that enable the utilization of waste tires in the development of high value materials and advanced applications. Finally, the future of tire recycling is considered. This is an essential resource for scientists, R&D professionals, engineers and manufacturers working in the tire, rubber, waste, recycling, automotive and aerospace industries. In academia, the book will be of interest to researchers and advanced scientists across rubber science, polymer science, materials engineering, environmental science, chemistry and chemical engineering. Offers systematic coverage of tire recycling, covering composition, lifecycle, processing options, material developments and latest technologies Explains end-of-life-options in detail, considering approaches and methods for reduction, re-use, recycling and recovery Explores key application and product areas for recycled tire materials, from civil engineering, sports and leisure, to roads and transport, construction, automotive, and many more

Management, Recycling and Reuse of Waste Composites Oct 07 2022 This authoritative reference work provides a comprehensive review of the management, recycling and reuse of waste composites. These are issues which are of increasing importance due to the growing use of composites in many industries, increasingly strict legislation and concerns about disposal of composites by landfill or incineration. Part one discusses the management of waste composites and includes an introduction to composites recycling and a chapter on EU legislation for recycling waste composites. Part two reviews thermal technologies for recycling waste composites with chapters on pyrolysis, catalytic transformation, thermal treatments for energy recovery and fluidized bed pyrolysis. Part three covers mechanical methods of recycling waste composites. This section includes chapters on additives for recycled plastic composites, improving mechanical recycling and the quality and durability of mechanically recycled composites. Parts four discusses improving sustainable manufacture of composites, with chapters on environmentally-friendly filament winding of FRP composites, process monitoring and new developments in producing more functional and sustainable composites. Part five gives a review of case studies including end-of-life wind turbine blades, aerospace composites, marine composites, composites in construction and the recycling of concrete. With its distinguished editor and international team of contributors, Management, recycling and reuse of waste composites is a standard reference for anyone involved in the disposal or recycling of waste composites. Reviews the increasingly important issues of

recycling and reuse as a result of the increased use of composites Discusses the management of waste composites and EU legislation with regards to recycling Examines methods for recycling, including thermal technologies and mechanical methods

Waste and Recycling Dec 29 2021 As "business as usual" has become the mantra of today's world, it's unlikely to see a decrease in hazardous waste generated from greater economic growth. Written by renowned experts, the book suggests a solution, supported by theoretical arguments to this waste problem. The book discusses how main problems for waste management can be addressed through appropriate policies adopted by governments in OECD countries. The book also raises thoughtful questions on how household waste management services should be privatized and who should pay for the disposal and recycling costs. It attempts to answer these questions. The book considers several factors hindering the first-best optimal outcome and highlights two crucial ones. It elaborates further with models and the solutions on how to overcome these obstacles. The book covers not only traditional resource economics and waste management, but also the recent problem of Electric waste (E-waste) and illustrates in details, how the environments of developing countries are inevitably polluted even with the Basel ban Amendment in place. The book proposes an alternative international trading regulation to address E-waste. This book will certainly appeal to industry decision-makers, policy makers and legislators.

Recycling Textile and Plastic Waste May 22 2021 Edited papers from the 1995 conference Ecotextile - Wealth for Waste in Textiles, organised by Bolton Institute and the British Textile Technology Group.

The Rubbish Book Mar 20 2021

Recycling and the Politics of Urban Waste Jun 03 2022 The affluence of western society has given rise to unprecedented quantities of waste, presenting one of the most intractable environmental problems for contemporary society. This book examines recycling and municipal waste management in three major cities: London, New York and Hamburg. A range of political and economic issues are examined to illustrate how any reduction in the size of the waste stream in order to achieve more equitable and environmentally sustainable patterns of resource use is incompatible with the current emphasis in the use of the market for environmental protection. The case studies show how, contrary to the hopes of many environmentalists and policy makers, municipal waste management is moving steadily towards the profitable option of incineration with energy recovery, rather than the recycling of materials or waste reduction at source. The evidence suggests that the achievement of a more sustainable pattern of recycling and waste management policy would demand a fundamental change in public policy, to give government a more active role in environmental protection.

Degradable Polymers, Recycling, and Plastics Waste Management Sep 13 2020 Based on the International Workshop on Controlled Life-Cycle of Polymeric Materials held in Stockholm, this work examines degradable polymers and the recycling of plastic materials. It highlights recent results on recycling and waste management, including topics such as renewable resources, degradation, processing and products, and environmental issues.

Household Waste Recycling Jan 30 2022 Households in the UK each generate around one tonne of waste per year, and the successful management and disposal of this waste is becoming an increasingly important issue. In many cases, recycling is the most sensible option, and the UK government has set a target to recycle a quarter of all household waste by the year 2000. This book gives an overview of the waste management and disposal options currently available, and provides a comprehensive and up-to-date analysis of how recycling could develop. The author - one of the UK's leading experts - looks at how much of the waste is potentially recyclable, shows the various ways in which recyclable materials can be separated and reprocessed, and assesses the existing markets for recyclable materials. He gives an in-depth account of the important subject of packaging recycling, and compares the UK's progress and performance with what is happening elsewhere in Europe. He also discusses how the performance of current recycling schemes can be measured and costed, and forecasts future developments in the industry. Dr Richard Waite is a former Specialist Advisor to the House of Commons Environment Select Committee and is currently a consultant with Coopers & Lybrand. He established one of the first commercial MRFs in the country, and has advised many local authorities, central government departments (including the European Commission) and private sector organisations on recycling issues. Originally published in 1995

Organic Waste Recycling: Technology, Management and Sustainability Sep 25 2021 This fourth edition of Organic Waste Recycling is fully updated with new material to create a comprehensive and accessible textbook: - New chapter on constructed wetlands for wastewater and faecal sludge stabilization. - New sections on: waste recycling vs. climate change and water; faecal sludge and its characteristics; hydrothermal carbonization technology; up-to-date environmental criteria and legislation and environmental risk assessment. - New case studies with emphasis on practices in both developed and developing countries have been included, along with more exercises at the end of chapters to help the readers understand the technical principles and their application. - Novel concepts and strategies of waste management are presented. - Up-to-date research findings and innovative technologies of waste recycling program are provided. This textbook is intended for undergraduate and graduate students majoring in environmental sciences and engineering as well as researchers, professionals and policy makers who conduct research and practices in the related fields. It is essential reading for experts in environmental science and engineering and sustainable waste reuse and recycling in both developed and developing countries.

Environmental Impacts of Waste Paper Recycling Apr 01 2022 Public concern for the conservation of natural resources and a general awareness of the environmental consequences of waste disposal is reflected in current legislation aimed at reducing waste. Recycling is commonly cited as one of the preferred methods of waste reduction and this book summarizes a recent study of paper recycling in Europe, which investigated the entire production and disposal process using a life-cycle methodology. The results of the study underline the economic and environmental advantages of paper recycling, but more controversially, they also show how, under certain conditions, the renewable character and the high energy content of paper seem to make energy recovery more attractive than recycling.

What A Waste Aug 01 2019 In this informative book on recycling for children, you will find everything you need to know about our environment. The good, the bad, and the incredibly innovative. From pollution and litter to renewable energy and plastic recycling. This educational book will teach young budding ecologists about how our actions affect planet Earth and the big impact we can make by the little things we do. Did you know that every single plastic toothbrush ever made still exists? Or that there is a floating mass of rubbish larger than the USA drifting around the Pacific Ocean? It is not all bad news though. While this is a knowledge book that explains where we are going wrong, What a Waste also shows what we are getting right! Discover plans to save our seas. How countries are implementing green projects worldwide, and how to turn waste into something useful. The tiniest everyday changes can make all the difference to ensure our beautiful planet stays lush and teeming with life. It is a lively kid's educational book with fabulous illustrations and fun facts about the world broken into easy to digest bite-sized bits. Each page can be looked at in short bursts or longer reads for more detail, making it a great children's book for a range of age groups. Get Involved - Make A Difference! Almost everything we do creates waste, from litter and leftovers to factory gases and old gadgets. Find out where it goes, how it affects our planet and what we can do to reduce the problem. From how to make your home more energy and water efficient, to which items can be recycled and tips for grocery shopping, this book is packed full of ideas on how you can get involved to make our planet a better place to live. This environment book for children has a wealth of ideas for becoming a planet-defending hero: - Discover shocking facts about the waste we produce and where it goes - Learn where about our Earth's limited resources and how to take some pressure off - Your trash is another man's treasure - Small changes to take your home from wasteful to super resource efficient - Dive into saving our oceans and super recycling - And much, much more What a Waste is one of several nature books for kids written by Jess French, a passionate conservationist and veterinarian committed to protecting the beautiful world we live in.

Energy Savings by Wastes Recycling Nov 15 2020 The overall aim of this study was to assess the energyconservation potential obtainable through the reuse of wastematerials, and to identify areas for priority action.

Waste Management and Resource Recovery Oct 27 2021 This book provides a basic understanding of waste management problems and issues faced by modern society. Scientific, technical, and environmental principles are emphasized to illustrate the processes of municipal and industrial solid wastes and liquid wastes, and the nature of impacts resulting from waste dispersal and disposal in the environment. Economic, social, legal, and political aspects of waste management are also addressed. Environmental issues and concerns receive thorough coverage in discussing waste reduction, resource recovery, and efficient and practical waste disposal systems. Other specific topics include recycling, physical and chemical processing, the biological treatment of waste solids, incineration, pyrolysis, and energy recover, hazardous wastes, and landfill management. The role of government and other institutions in waste management and resource recovery matters is also detailed. Discussion questions, worked examples, and end-of-chapter problems reinforce important concepts. Waste Management and Resource Recovery is particularly suitable as a text in waste management courses in environmental science or engineering programs. It also works well as a reference for practitioners in the waste management field.

Recycling and Re-use of Waste Rubber Jun 30 2019 Recycling of rubber materials is necessary from both an environmental and economic perspective. This book describes everything from the world market to the many novel technologies and processes developed for the re-use and recycling of our common rubber materials. Devulcanization, production of rubber crumbs, reprocessing and manufacture of new materials are thoroughly described and discussed.

Advances in Construction and Demolition Waste Recycling Aug 05 2022 Advances in Construction and Demolition Waste Recycling: Management, Processing and Environmental Assessment is divided over three parts. Part One focuses on the management of construction and demolition waste, including estimation of quantities and the use of BIM and GIS tools. Part Two reviews the processing of recycled aggregates, along with the performance of concrete mixtures using different types of recycled aggregates. Part Three looks at the environmental assessment of non-hazardous waste. This book will be a standard reference for civil engineers, structural engineers, architects and academic researchers working in the field of construction and demolition waste. Summarizes key recent research in recycling and reusing concrete and demolition waste to reduce environmental impacts Considers techniques for managing construction and demolition waste, including waste management plans, ways of estimating levels of waste, and the types and optimal location of waste recycling plants Reviews key steps in handling construction and demolition waste

What A Waste May 02 2022 Everything you need to know about what we're doing to our environment, good and bad, from pollution and litter to renewable energy and plastic recycling. This environmental book will teach keen young ecologists about our actions affect planet Earth. Discover shocking facts about the waste we produce and where it goes. Did you know that every single plastic toothbrush ever made still exists? Or that there's a floating mass of rubbish larger than the USA drifting around the Pacific Ocean? It's not all bad news though. As well as explaining where we're going wrong, What a Waste shows what we're doing right! Discover plans already in motion to save our seas, how countries are implementing schemes that are having a positive impact, and how your waste can be turned into something useful. Every small change helps our planet!

Solid Waste Recycling and Processing Mar 08 2020 Originally published as: Approaches to implementing solid waste recycling facilities. Park Ridge, N.J.: Noyes Publications, 1994.

Waste and Recycling Jan 06 2020 What a waste! Every day we throw things away, and our planet is piling on pounds of waste. Waste and Recycling shows us how to combat the amount we throw away in the trash and how recycling more can help to save the planet. Learn about what happens to the trash we throw out, how much waste is organic, and what we can't recycle. Discover how recycling can turn your old junk into something new, and how recycling plastic saves oil. We all need to get thrifty and reduce waste by reusing old items! Sensitively written with informative photographs, this is an important, high-interest read for young kids saving the planet.

Solid Waste Recycling and Processing Sep 06 2022 Solid Waste Recycling and Processing, Second Edition, provides best-practice guidance to solid waste managers and recycling coordinators. The book covers all aspects of solid waste processing, volume reduction, and recycling, encompassing typical recyclable materials (paper, plastics, cans, and organics), construction and demolition debris, electronics, and more. It includes techniques, technologies, and programs to help maximize customer participation rates and revenues, as well as to minimize operating costs. The book is packed with lessons learned by the author during the implementation of the most successful programs worldwide, and includes numerous case studies showing how different systems work in different settings. This book also takes on industry debates such as the merits of curbside-sort versus single-stream recycling and the use of advanced technology in materials recovery facilities. It provides key facts and figures, and brief summaries of legislation in the United States, Europe, and Asia. An extensive glossary demystifies the terminology and acronyms used in different sectors and geographies. The author also explains emerging concepts in recycling such as zero waste, sustainability, LEED certification, and pay-as-you-throw, and places waste management and recycling in wider economic, environmental (sustainability), political, and societal contexts. Covers single- and mixed-waste streams Evaluates the technologies and tradeoffs of recycling of materials vs. integrated solutions, including combustion and other transformational options Covers recycling as part of the bigger picture of solid waste management, processing and disposal

Rubbish and Recycling Jun 10 2020 This successful series continues to flourish with another exceptional new title. Beginners titles appeal to children who are beginning to read independently, with easy-to-read text and stunning photographs, perfect for use in the classroom and at home; Each book also contains a glossary of useful words and a selection of related websites accessible through the Usborne Quicklinks website.

What a Waste Sep 01 2019 Everything you need to know about what we're doing to our environment, good and bad, from pollution and litter to renewable energy and plastic recycling. This environmental book will teach keen young ecologists about our actions affect planet Earth. Discover shocking facts about the waste we produce and where it goes. Did you know that every single plastic toothbrush ever made still exists? Or that there's a floating mass of rubbish larger than the USA drifting around the Pacific Ocean? It's not all bad news though. As well as explaining where we're going wrong, What a Waste shows what we're doing right! Discover plans already in motion to save our seas, how countries are implementing schemes that are having a positive impact, and how your waste can be turned into something useful. Every small change helps our planet!

Waste Electrical and Electronic Equipment Recycling Feb 16 2021 Water Electrical and Electronic Equipment Recycling: Aqueous Recovery Methods provides data regarding the implementation of aqueous methods of processing of WEEEs at the industrial level. Chapters explore points-of-view of worldwide researchers and research project managers with respect to new research developments and how to improve processing technologies. The text is divided into two parts, with the first section addressing the new research regarding the hydrometallurgical procedures adopted from minerals processing technologies. Other sections cover green chemistry, bio-metallurgy applications for WEEE treatment and the current developed aqueous methods at industrial scale. A conclusion summarizes existing research with suggestions for future actions. Provides a one-stop reference for hydrometallurgical processes of metal recovery from WEEE Includes methods presented through intended applications, including waste printed circuit boards, LCD panels, lighting and more Contains suggestions and recommendations for future actions and research prospects

Waste Treatment and Disposal Jul 12 2020 Following on from the successful first edition of Waste Treatment & Disposal, this second edition has been completely updated, and provides comprehensive coverage of waste process engineering and disposal methodologies. Concentrating on the range of technologies available for household and commercial waste, it also presents readers with relevant legislative background material as boxed features. NEW to this edition: Increased coverage of re-use and recycling Updating of the usage of different waste treatment technologies Increased coverage of new and emerging technologies for waste

treatment and disposal A broader global perspective with a focus on comparative international material on waste treatment uptake and waste management policies

Plastic Waste and Recycling Nov 08 2022 Plastic Waste and Recycling: Environmental Impact, Societal Issues, Prevention, and Solutions begins with an introduction to the different types of plastic materials, their uses, and the concepts of reduce, reuse and recycle before examining plastic types, chemistry and degradation patterns that are organized by non-degradable plastic, degradable and biodegradable plastics, biopolymers and bioplastics. Other sections cover current challenges relating to plastic waste, explain the sources of waste and their routes into the environment, and provide systematic coverage of plastic waste treatment methods, including mechanical processing, monomerization, blast furnace feedstocks, gasification, thermal recycling, and conversion to fuel. This is an essential guide for anyone involved in plastic waste or recycling, including researchers and advanced students across plastics engineering, polymer science, polymer chemistry, environmental science, and sustainable materials.

Degradable Polymers, Recycling, and Plastics Waste Management Oct 15 2020 Based on the International Workshop on Controlled Life-Cycle of Polymeric Materials held in Stockholm, this work examines degradable polymers and the recycling of plastic materials. It highlights recent results on recycling and waste management, including topics such as renewable resources, degradation, processing and products, and environmental is