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KEY=BOOK - LEE SALAZAR

Recycled Aggregates

Use in Concrete

Recycling Reconsidered

The Present Failure and Future Promise of Environmental Action in the United States

MIT Press How the success and popularity of recycling has diverted attention from the steep environmental costs of manufacturing the goods we consume and discard. Recycling is widely celebrated as an environmental success story. The accomplishments of the recycling movement can be seen in municipal practice, a thriving private recycling industry, and widespread public support and participation. In the United States, more people recycle than vote. But, as Samantha MacBride points out in this book, the goals of recycling—saving the earth (and trees), conserving resources, and greening the economy—are still far from being realized. The vast majority of solid wastes are still burned or buried. MacBride argues that, since the emergence of the recycling movement in 1970, manufacturers of products that end up in waste have successfully prevented the implementation of more onerous, yet far more effective, forms of sustainable waste policy. Recycling as we know it today generates

the illusion of progress while allowing industry to maintain the status quo and place responsibility on consumers and local government. MacBride offers a series of case studies in recycling that pose provocative questions about whether the current ways we deal with waste are really the best ways to bring about real sustainability and environmental justice. She does not aim to debunk or discourage recycling but to help us think beyond recycling as it is today.

Recycling of Used Lead-Acid Batteries

Guidelines for Appraisal of Environmental Health Impacts

World Bank Publications THIS IS A CONFERENCE EDIT ...

Rubber Recycling

Rubber Recycling

Royal Society of Chemistry Rubber is used in a vast number of products, from tyres on vehicles to disposable surgical gloves. Increasingly both manufacturers and legislators are realising that recycling is essential for environmental sustainability and can improve the cost of manufacture. The volume of rubber waste produced globally makes it difficult to manage as accumulated waste rubber, especially in the form of tyres, can pose a significant fire risk. Recycling rubber not only prevents this problem but can produce new materials with desirable properties that virgin rubbers lack. This book presents an up-to-date overview of the fundamental and applied aspects of renewability and recyclability of rubber materials, emphasising existing recycling technologies with significant potential for future applications along with a detailed outline of new technology based processing of rubber to reuse and recycle. This book will be of interest to researchers in both academia and industry as well as postgraduate students working in polymer chemistry, materials processing, materials science and engineering.

The Elements of Style

e-artnow The Elements of Style William Strunk concentrated on specific questions of usage—and the cultivation of good writing—with the recommendation "Make every word tell"; hence the 17th principle of

composition is the simple instruction: "Omit needless words." The book was also listed as one of the 100 best and most influential books written in English since 1923 by Time in its 2011 list.

Rummage

A History of the Things We Have Reused, Recycled and Refused to Let Go

Profile Books 'Brilliantly original ... shimmering book. ... What binds this book together and gives it a numinous quality is the tenderness that the author displays for other people's ingenious leftovers, from brotherly teeth to Puritan kites.' Guardian 'Rich, meticulous, lively' Sunday Times Rummage tells the overlooked story of our throwaway past. Emily Cockayne extracts glittering gems from the rubbish pile of centuries past and introduces us to the visionaries, crooks and everyday do-gooders who have shaped the material world we live in today - like the fancy ladies of the First World War who turned dog hair into yarn, or the Victorian gentlemen selling pianofortes made from papier-mâché, or the hapless public servants coaxing people into giving up their railings for the greater good. In this original and fascinating new history, Cockayne illuminates our relationship to our rubbish: from the simple question of how we reuse and recycle things (and which is better), to all the weird and wonderful ways it's been done in the past. She exposes the hidden work (often done by women) that has gone into shaping the world for each future generation, and she shows what lessons can be drawn from the past to address urgent questions of our waste today.

Sustainable Construction Materials

Recycled Aggregates

Woodhead Publishing Sustainable Construction Materials: Recycled Aggregate focuses on the massive systematic need that is necessary to encourage the uptake of recycled and secondary materials (RSM) in the construction industry. This book is the fifth and the last of the series on sustainable construction materials and like the previous four, it is also different to the norm. Its uniqueness lies in using the newly developed, Analytical Systemisation Method, in building the data-matrix sourced from 1413 publications, contributed by 2213 authors from 965 institutions in 67 countries, from 1977 to 2018, on the subject of recycled aggregate as a

construction material, and systematically analysing, evaluating and modelling this information for use of the material as an aggregate concrete and mortar, geotechnics and road pavement applications. Environmental issues, case studies and standards are also discussed. The work establishes what is already known and can be used to further progress the use of sustainable construction materials. It can also help to avoid repetitive research and save valuable resources. The book is structured in an incisive and easy to digest manner and is particularly suited for researchers, academics, design engineers, specifiers, contractors, and government bodies dealing with construction works. Provides an exhaustive and comprehensively organized list of globally-based published literature spanning 5000 references Offers an analysis, evaluation, repackaging and modeling of existing knowledge that encourages more responsible use of waste materials Provides a wealth of knowledge for use in many sectors relating to the construction profession, including academia, research, practice and adoption of RSM

Complete Digital Marketing Guide Book for SEO, Social Media & Brand awareness

Definitive & Hidden Secrets of Digital Marketing to grow your business

Publicancy Ltd A step by step guide to digital marketing. It highlights the crucial steps needed to start a digital business. It's a Complete Digital Marketing Guide Book for SEO, Social Media & Brand awareness. Learn Definitive & Hidden Secrets of Digital Marketing to grow your business know that the evolution of technology is constant in our society and unfolding at warp speed. Most, if not all, technology companies have their foot firmly on the accelerator. It's predicted that by 2020, multi-billions of dollars will have been put into the technology revolution. Where does Digital Marketing fit in? The answers to Digital Marketing include the following: Conversion Rate Optimization SEO (Search Engine Optimization) SMM (Social Media Marketing) Email Marketing Internet Reputation Management Blogging Utilizing this digital marketing guide will allow you to apply the knowledge and greatly increase the success of your website & brand.

Waste Electrical and Electronic Equipment Recycling Aqueous Recovery Methods

Woodhead Publishing 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

Organic Waste Recycling: Technology, Management and Sustainability

IWA Publishing 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.

Handbook of Recycling

State-of-the-art for Practitioners, Analysts, and Scientists

Newnes Winner of the International Solid Waste Association's 2014 Publication Award, 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 impact of recycling on energy use, sustainable development, and the environment. With contemporary recycling literature scattered across disparate, unconnected articles, this book is a crucial aid to students and researchers in a range of disciplines, from materials and environmental science to public policy studies. Portrays recent and emerging technologies in metal recycling, by-product utilization and management of post-consumer waste Uses life cycle analysis to show how to reclaim valuable resources from mineral and metallurgical wastes Uses examples from current professional and industrial practice, with policy and economic implications

Waste Material Recycling in the Circular Economy

Challenges and Developments

BoD - Books on Demand This book highlights current challenges and developments in waste material recycling in the framework of a circular economy. The increase in the standard of living has resulted in the large consumption of several materials, mainly polymers. Therefore the problem of waste recycling, specifically polymer recycling, in an environmentally friendly way is more urgent than ever. Nowadays, more specialized recycling methods are required to manage a wide variety of wastes. Over

fourteen chapters in three sections, this book addresses such topics as chemical recycling techniques, recycling of polyethylene, denim production and recycling, valorization of waste materials, urban mining, the circular economy, and much more.

Post-Consumer Waste Recycling and Optimal Production

BoD - Books on Demand This book deals with several aspects of waste material recycling. It is divided into three sections. The first section explains the roles of stakeholders, both informal and formal sectors, in post-consumer waste activities. It also discusses waste collection programs for recycling. The second section discusses the analysis tools for recycling system. The third section focuses on the recycling process and optimal production. I hope that this book will convey both the need and means for recycling and resource conservation activities to a wide readership, at both academician and professional level, and contribute to the creation of a sound material-cycle society.

Automotive Recycling, Plastics, and Sustainability

The Recycling Renaissance

Springer This book provides transdisciplinary analyses of the automotive plastics production and recycling system, including prognoses, scenarios and solutions for corporate sustainability management. A book on plastics, not written by a plastics guy. But a sustainability guy. **Plastics schizophrenia and the automotive abyss: The industry is facing a severe challenge. It is the inevitable and promising change towards a sustainable economy. However, the automotive industry is primarily concerned with the CO2 emissions from cars when driving, while the rise of lightweight plastics, electric drive and heavy batteries make the production and end-of-life phase ever more important. Therefore, the currently increasing use of non-sustainable virgin plastics in cars has to be tackled. The plastics and the automotive industry now have a chance, and this chance is the Recycling Renaissance. This book offers:**

- Holistic and transdisciplinary overview on sustainability and automotive plastics from all angles including economy, ecology, technology, and politics with a focus on Europe
- Concise analyses, prognoses, tools and a roadmap with solutions for companies, developed together with international experts from industry and academia
- Strong scientific basis and independent research including a Europe-wide survey, expert interviews, and workshops
- More

than 80 illustrations and 15 tables including a SCOT analysis • Executive summaries after each chapter for fast reading “The uniqueness of this book lies within the different point of view on this topic from a critical, outstanding scientist.” - Univ.-Prof. Dipl.-Ing. Dr. mont. Pomberger, Montanuni Leoben

Tire Waste and Recycling

Academic Press 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

WEEE Recycling

Research, Development, and Policies

Elsevier WEEE Recycling: Research, Development, and Policies covers policies, research, development, and challenges in recycling of waste electrical and electronic equipment (WEEE). The book introduces WEEE management and then covers the environmental, economic, and societal applications of e-waste recycling, focusing on the technical challenges to designing efficient and sustainable recycling processes—including physical separation, pyrometallurgical, and hydrometallurgical processes. The development of processes for recovering strategic and critical metals from

urban mining is a priority for many countries, especially those having few available ores mining. Describes the two metallurgical processes—hydro- and pyro-metallurgy—and their application in recycling of metals Provides a life cycle analysis in the WEEE recycling of metals Outlines how to determine economic parameters in the recycling of waste metals Discusses the socio economic and environmental implication of metal recycling

Recycled Aggregate in Concrete

Use of Industrial, Construction and Demolition Waste

Springer Science & Business Media Concrete is the most used man-made material in the world since its invention. The widespread use of this material has led to continuous developments such as ultra-high strength concrete and self-compacting concrete. **Recycled Aggregate in Concrete: Use of Industrial, Construction and Demolition Waste** focuses on the recent development which the use of various types of recycled waste materials as aggregate in the production of various types of concrete. By drawing together information and data from various fields and sources, **Recycled Aggregate in Concrete: Use of Industrial, Construction and Demolition Waste** provides full coverage of this subject. Divided into two parts, a compilation of varied literature data related to the use of various types of industrial waste as aggregates in concrete is followed by a discussion of the use of construction and demolition waste as aggregate in concrete. The properties of the aggregates and their effect on various concrete properties are presented, and the quantitative procedure to estimate the properties of concrete containing construction and demolition waste as aggregates is explained. Current codes and practices developed in various countries to use construction and demolition waste as aggregates in concrete and issues related to the sustainability of cement and concrete production are also discussed. The comprehensive information presented in **Recycled Aggregate in Concrete: Use of Industrial, Construction and Demolition Waste** will be helpful to graduate students, researchers and concrete technologists. The collected data will also be an essential reference for practicing engineers who face problems concerning the use of these materials in concrete production.

Polyester

Production, Characterization and Innovative Applications

BoD - Books on Demand Polyester is one of the most important polymers for fibers and composites. Significant developments in nanoparticle-doped polyester composites, polyester recycling, flame-retardant unsaturated polyester resins, and application of polyester for construction and automotive industry are currently carried out. Thus, this book provides leading edge research on improvements of functional properties of polyester, modifications of unsaturated polyester resins, and polyester (especially recycled polyester) usage in construction and in automotive application areas in the form of fiber, resin, and composite. The book also covers the characterization of unique features of polyester found by mechanical, chemical, physical, microstructural, and thermal analyses. This book intends to provide an understanding of the developments of functional polyester production, synthesis, and characterization and support to many academic researchers and graduate students in textile, polymer, composite, chemical science, and research and development managers in recycling and composite applications of polyester in the construction and automotive industry.

E-Waste Management

From Waste to Resource

Routledge The landscape of electronic waste, e-waste, management is changing dramatically. Besides a rapidly increasing world population, globalization is driving the demand for products, resulting in rising prices for many materials. Absolute scarcity looms for some special resources such as indium. Used electronic products and recyclable materials are increasingly crisscrossing the globe. This is creating both - opportunities and challenges for e-waste management. This focuses on the current and future trends, technologies and regulations for reusable and recyclable e-waste worldwide. It compares international e-waste management perspectives and regulations under a view that includes the environmental, social and economic aspects of the different linked systems. It overviews the current macro-economic trends from material demand to international policy to waste scavenging, examines particular materials and product streams in detail and explores the future for e-waste and its' management considering technology progress, improving end-of-lifecycle designs, policy and sustainability perspectives. To achieve this, the volume has been divided in twelve chapters that cover three major themes: holistic view of the global e-waste situation current reserve supply chain and management

of used electronics, including flows, solutions, policies and regulations future perspectives and solutions for a sustainable e-waste management. The emphasis of the book is mainly on the dramatic change of the entire e-waste sector from the cheapest way of getting rid of e-waste in an environmental sound way to how e-waste can help to reduce excavation of new substances and lead to a sustainable economy. It is an ideal resource for policy-makers, waste managers and researchers involved in the design and implementation of e-waste.

Used Battery Collection and Recycling

Elsevier This book covers all aspects of spent battery collection and recycling. First of all, the legislative and regulatory updates are addressed and the main institutions and programs worldwide are mentioned. An overview of the existing battery systems, of the chemicals used in them and their hazardous properties is made, followed by a survey of the major industrial recycling processes. The safety and efficiency of such processes are stressed. Particular consideration is given to the released emissions, i.e. to the impact on human health and the environment. Methods for the evaluation of this impact are described. Several chapters deal with specific battery chemistries: lead-acid, nickel-cadmium and nickel-metal hydride, zinc (carbon and alkaline), lithium and lithium-ion. For each type of battery, details are provided on the collection/recycling process from the technical, economic and environmental viewpoint. The chemicals recoverable from each process and remarketable are mentioned. A chapter deals with recovering of the large batteries powering electric vehicles, e.g. lead-acid, nickel-metal hydride and lithium-ion. The final chapter is devoted to the important topic of collecting batteries from used electrical and electronic equipment. The uncontrolled disposal of these devices still containing their batteries contributes to environmental pollution.

Household Recycling and Consumption Work

Social and Moral Economies

Springer Consumers are not usually incorporated into the sociological concept of 'division of labour', but using the case of household recycling, this book shows why this foundational concept needs to be revised.

Material Recycling

Trends and Perspectives

BoD - Books on Demand The presently common practice of wastes' land-filling is undesirable due to legislation pressures, rising costs and the poor biodegradability of commonly used materials. Therefore, recycling seems to be the best solution. The purpose of this book is to present the state-of-the-art for the recycling methods of several materials, as well as to propose potential uses of the recycled products. It targets professionals, recycling companies, researchers, academics and graduate students in the fields of waste management and polymer recycling in addition to chemical engineering, mechanical engineering, chemistry and physics. This book comprises 16 chapters covering areas such as, polymer recycling using chemical, thermo-chemical (pyrolysis) or mechanical methods, recycling of waste tires, pharmaceutical packaging and hardwood kraft pulp and potential uses of recycled wastes.

Building for a Sustainable Future in Our Schools

Brick by Brick

Springer This book explores how educators can transform improvements from the dynamic process of teaching into far-reaching, sustainable reforms that can secure a more prosperous future for students and the world they inhabit. It establishes the role of leadership in educational sustainability and highlights methods of creating sustainable educational reforms. The authors emphasize the importance of implementing ethical and moral values in teaching sustainable practices, and discuss the critical relationship between the classroom and the local community and policies protecting planet earth. Furthermore, through the inclusion of research and case studies drawn from countries across the world, this valuable resource demonstrates how transformational leadership practices can contribute to a culture of sustainability in all classrooms, pre-K through university. Among the topics covered:- Social Capital Dimensions: Social Justice, Morality, and the Common Good- Classroom and Community Partners: The Ethics and Morality Inherent in Sustainable Practices- Developing a Culture for Sustainability in Educational Organisations and in Partnerships, i.e., Across Disciplines and Communities- Understanding Leadership Practices in a Sustainable School Model: A Case Study from Turkey divEducators, education researchers, and policymakers in education

will find **Building for a Sustainable Future in Our Schools: Brick by Brick** to be a useful tool in understanding the critical role of education in sustainable development encouraging complementary relationships between humans and our earth.

Sustainable Innovations in Recycled Textiles

Springer This book highlights the environmental and economic benefits of recycling in textiles and fashion; vis-a-vis virgin textiles. Recycling plays an inevitable part when it comes to sustainable innovations in textiles and fashion sector. As basic information pertaining to the benefits, challenges of recycling in textiles are discussed to the sufficient extent in the literature, this book deals with the innovative at the same time, sustainable products made from the recycled textiles.

Waste

A Handbook for Management

Academic Press **Waste: A Handbook for Management** gives the broadest, most complete coverage of waste in our society. The book examines a wide range of waste streams, including: Household waste (compostable material, paper, glass, textiles, household chemicals, plastic, water, and e-waste) Industrial waste (metals, building materials, tires, medical, batteries, hazardous mining, and nuclear) Societal waste (ocean, military, and space) The future of landfills and incinerators Covering all the issues related to waste in one volume helps lead to comparisons, synergistic solutions, and a more informed society. In addition, the book offers the best ways of managing waste problems through recycling, incineration, landfill and other processes. Co-author Daniel Vallero interviewed on NBC's Today show for a segment on recycling Scientific and non-biased overviews will assist scientists, technicians, engineers, and government leaders Covers all main types of waste, including household, industrial, and societal Strong focus on management and recycling provides solutions

Recycling and Re-use of Waste

Rubber

Walter de Gruyter GmbH & Co KG 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.

Report 30: Use of Recycled Materials - Final report of RILEM Technical Committee 198-URM

RILEM Publications

PRO 40: International RILEM Conference on the Use of Recycled Materials in Buildings and Structures (Volume 2)

RILEM Publications

Recycling in Textiles

Woodhead Publishing An increasing amount of waste is generated each year from textiles and their production. For economic and environmental reasons it is necessary that as much of this waste as possible is recycled instead of being disposed of in landfill sites. In reality the rate of textile recycling is still relatively low. On average, approximately ten million tonnes of textile waste is currently dumped in Europe and America each year. Considering the diversity of fibrous waste and structures, many technologies must work in concert in an integrated industry in order to increase the rate of recycling. Recycling in textiles shows how this can be achieved. The first part of the book introduces the subject by looking at the general issues involved and the technologies concerned. Part Two explores the chemical aspects of textile recycling. Part Three focuses on recycled textile products, including nonwovens and alternative fibres. Finally, the last part of the book discusses possible applications of recycled textiles, including using recycled products in the operating theatre, for soil stabilisation and in concrete reinforcement. Recycling in textiles presents several promising technologies and ideas for recycling systems. This is the first book of its kind to bring together textile recycling issues, technology, products, processes and applications. It will prove an invaluable guide to all those in the industry who are now looking for ways to recycle their

textile waste. Provides extensive coverage of this hot topic An invaluable guide for all in the textile industry Learn how to increase the rate of recycling

Recycling and Reuse of Materials and Their Products

CRC Press This important book is an overall analysis of different innovative methods and ways of recycling in connection with various types of materials. It aims to provide a basic understanding about polymer recycling and its reuse as well as presents an in-depth look at various recycling methods. It provides a thorough knowledge about the work being done in recycling in different parts of the world and throws light on areas that need to be further explored. Emphasizing eco-friendly methods and recovery of useful materials The book covers a wide variety of innovative recycling methods and research, including

- Green methods of recycling
- Effective conversion of biomass and municipal wastes to energy-generating systems
- A catalyst for the reuse of glycerol byproduct
- Methods of adsorption to treat wastewater and make it suitable for irrigation and other purposes
- Disposal of sludge
- The use of calcined clay to replace both fine and coarse aggregates
- Recycling of rubbers
- The production of a sorbent material for paper mill sludge
- Replacing polypropylene absorbent in oil spill sanitations
- The use of natural fibers for various industrial applications
- Cashew nut shell liquid as a source of surface active reagents
- Integrated power and cooling systems based on biomass
- Recycling water from household laundering
- much more

Glass Waste

Thomas Telford The three volumes from part of the Proceedings of the two-day International Conference organised by the Concrete and Masonry Research Group within the School of Engineering at Kingston University, held in September 2004. The Conference deals with issues such as the regulatory framework, government policy, waste management, processing, recovery, the supply network, recycling opportunities, sustainable ways forward and the economics of sustainability.

Environmental Sustainability and Education for Waste Management

Implications for Policy and Practice

Springer This book focuses on education for environmental sustainability, in particular the area of solid waste management. Presenting the latest studies from different countries, industries and education sectors on the approaches and innovative ideas to educate future citizens regarding sustainable development of our planet, it is of interest to educators, academics, tertiary students, policy-makers, environmental scientists, social scientists and practitioners who have been involved in education, policy, science, and technological innovation for solid waste management.

Plastic Waste and Recycling

Environmental Impact, Societal Issues, Prevention, and Solutions

Academic Press *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.

Use of Recycled Plastics in Eco-efficient Concrete

Woodhead Publishing *Use of Recycled Plastics in Eco-efficient Concrete* looks at the processing of plastic waste, including techniques for separation, the production of plastic aggregates, the production of concrete with recycled plastic as an aggregate or binder, the fresh properties of concrete with plastic aggregates, the shrinkage of concrete with plastic aggregates, the mechanical properties of concrete with plastic aggregates, toughness of concrete with plastic aggregates, modulus of

elasticity of concrete with plastic aggregates, durability of concrete with plastic aggregates, concrete plastic waste powder with enhanced neutron radiation shielding, and more, thus making it a valuable reference for academics and industrial researchers. Describes the main types of recycled plastics that can be applied in concrete manufacturing Presents, for the first time, state-of-the art knowledge on the properties of conventional concrete with recycled plastics Discusses the technological challenges for concrete manufactures for mass production of recycled concrete from plastic waste

European Ship Recycling Regulation Entry-Into-Force Implications of the Hong Kong Convention

Springer Science & Business Media This study provides an in-depth analysis of the Hong Kong Ship Recycling Convention as adopted in May 2009 and a thorough analysis of the overall status quo of ship recycling regulations. It investigates the lack of sufficient ratifications of the Convention from both a legal and an economic perspective. The first part of the study focuses on the history of the Convention's entry-into-force provision and the rationale behind it. Due to the fact that this provision provides a considerable additional obstacle to the Convention's becoming legally binding, in the second part the focus of the work shifts to unilateral action in this field. An overview of the legal environment of European ship recycling legislation is followed by an analysis and evaluation of a number of proposals by the European Commission attempting to tackle the problems of current ship recycling procedures. With a particular emphasis on (planned) European measures in this regard, the analysis' overall message is one of cautious optimism.

Recycling of Polyethylene Terephthalate Bottles

William Andrew Recycling of Polyethylene Terephthalate Bottles provides an overview of PET chemistry, highlighting the main degradation, depolymerization processes and pathways of PET, along with the applications of recycled monomers derived from PET waste. The latest methodologies of recycling and feedstock recovery are covered, providing critical foundational information. In addition, the book discusses a range of established methods of polymer recycling, with an emphasis on real world industrial case studies and the latest academic research. Users will find in-depth lifecycle and cost analysis of each waste management method,

comparing the suitability and feasibility of each to support the decision - making process. Polyethylene Terephthalate (PET) is the most recycled plastic in the world, but still represents a significant amount of landfill waste. This book presents an update on new regulations, providing recommendations for new opportunities in this area, including new processing methods and applications for recycled PET. Features a comprehensive introduction to the waste management of PET bottles, from regulatory concerns, to the range of different methods of materials recovery Enables practitioners to choose the most efficient and effective waste management process Includes detailed lifecycle and cost analysis information Compares traditional thermal recycling methods with more recently developed monomer recovery and chemical recycling methods

Recycled Paper Projects

Capstone "Don't recycle that magazine or old gift wrap-re-craft it! Nature-inspired jewelry hangers, earth-friendly journals, funky window suncatchers, and more are just a snip, fold, or stitch away. Turn old paper into new, one-of-a-kind eco-creations with more than 10 fun crafts"--

Recycling and Reuse of Glass Cullet

Proceedings of the International Symposium Organised by the Concrete Technology Unit and Held at the University of Dundee, Scotland, UK on 19-20 March 2001

Thomas Telford The necessity for adopting sustainable practices is becoming increasingly clear, and the recovery of maximum value from surplus glass cullet is a key component in this. The concrete construction industry can provide a number of alternative uses for cullet that can add value to this waste material. This book presents the proceedings of an International Symposium organised by the Concrete Technology Unit, University of Dundee, which brings together some of the worlds leading experts in the field of glass cullet recycling.

Re-Bound

Creating Handmade Books from Recycled and Repurposed Materials

Quarto Publishing Group USA Re-Bound is a beautiful book on bookbinding with a fun green twist-all the projects use recycled and upcycled materials. This book shows you how to take everyday materials from around the house, flea markets, thrift stores, and hardware stores and turn them into clever and eye-catching hand-made books.

Recycling from Waste in Fashion and Textiles

A Sustainable and Circular Economic Approach

John Wiley & Sons 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