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[Plastic](#) Jul 30 2022 “This eloquent, elegant book thoughtfully plumbs the . . . consequences of our dependence on plastics” (The Boston Globe, A Best Nonfiction Book of 2011). From pacemakers to disposable bags, plastic built the modern world. But a century into our love affair, we’re starting to realize it’s not such a healthy relationship. As journalist Susan Freinkel points out in this eye-opening book, we’re at a crisis point. Plastics draw on dwindling fossil fuels, leach harmful chemicals, litter landscapes, and destroy marine life. We’re drowning in the stuff, and we need to start making some hard choices. Freinkel tells her story through eight familiar plastic objects: a comb, a chair, a Frisbee, an IV bag, a disposable lighter, a grocery bag, a soda bottle, and a credit card. With a blend of lively anecdotes and analysis, she sifts through scientific studies and economic data, reporting from China and across the United States to assess the real impact of plastic on our lives. Her conclusion is severe, but not without hope. Plastic points the way toward a new creative partnership with the material we love, hate, and can’t seem to live without. “When you write about something so ubiquitous as plastic, you must be prepared to write in several modes, and Freinkel rises to this task. . . . She manages to render the most dull chemical reaction into vigorous, breathless sentences.” —SF Gate “Freinkel’s smart, well-written analysis of this love-hate relationship is likely to make plastic lovers take pause, plastic haters reluctantly realize its value, and all of us understand the importance of individual action, political will, and technological innovation in weaning us off our addiction to synthetics.” —Publishers Weekly “A compulsively interesting story. Buy it (with cash).” —Bill McKibben, author of *The End of Nature* “What a great read—rigorous, smart, inspiring, and as seductive as plastic itself.” —Karim Rashid, designer
[The Life of a Little Plastic Bottle](#) Dec 11 2020 Have you ever wondered what happens to a plastic bottle when you no longer need it? This lovely bedtime story helps children understand how and why we should recycle our plastic.

[Plastic](#) Jun 04 2020 A daunting, investigative journey, into how the autobiography of plastic became the autobiography of all of us. From nineteenth century London to ancient Rome and modern day Marshall Islands, *Plastic: An Autobiography* explores how technology, sprung from desire, draws all beings into its net, and asks how to live justly from within its grasp. Enacted through a process of weaving and entanglement in imitation of the ways past and present create one another, Cobb's investigations into the story of a certain piece of plastic, found in the stomach of a baby albatross and dated back to WWII, lead her to unravel the interconnections among plastic, climate change, and nuclear technologies.

Plastics and Industrial Design Mar 02 2020 Originally published in 1945, *Plastics and Industrial Design* is a non-technical work of reference for manufacturers and designers who, after the Second World War were beginning to realize the possibilities that manufacturing with Plastics could bring. The different types of plastics and their uses is discussed, as is their impact on the design of manufactured articles. Whilst the extensive use of plastic may have fallen out of favour in recent years due to environmental concerns, this book reminds us that in their infancy they offered exciting manufacturing possibilities.

Joining of Plastics Oct 21 2021 The third edition of this comprehensive handbook emphasizes the relationship between the assembly methods, the materials, and the plastics manufacturing processes, thus enabling the reader to identify the best design/assembly method for a given application. The book has been completely updated and a new chapter on laser welding of plastics was added. All principal fastening and joining methods used to assemble plastic parts today are described with their particular advantages and disadvantages. Assembly method limitations for a given material and/or a given molding process are discussed in great detail. This is very much a "how-to" book, offering a wealth of hard-to-find detailed information. Contents: - Rapid Guidelines for Assembly of Plastics and Efficient Use of the Handbook - Designing for Efficient Assembly - Cost Reduction in Assembly - Design for Disassembly and Recycling - Assembly Method Selection by Material - Assembly Method Selection by Process - Adhesive and Solvent Joining - Fasteners and Inserts - Hinges - Hot Plates/Hot Die/Fusion and Hot Wire/Resistance Welding - Hot Gas Welding - Induction/Electromagnetic Welding - Insert and Multi-Part Welding - Press Fits/Force Fits/Interference Fits/Shrink Fits - Snap Fits - Spin Welding - Staking/Swaging/Peening/Cold Heading/Cold Forming - Threads: Tapped and Molded-In - Ultrasonic Welding - Vibration Welding - Laser Welding

Handbook of Plastic Foams Sep 27 2019 This book is intended to be a source of practical information on all types of plastic foams (cellular plastics) in use, including the new structural plastic foams. Elastomer (rubber-like) foams are also considered. The book is intended primarily for those who require a non-theoretical, authoritative, easy-to-use handbook in the subject area. It should be of value to materials engineers, plastics

fabricators, chemists, chemical engineers and students. Recognized authorities have written several chapters and parts of chapters in their fields of expertise. The book is organized in such a way that information on a desired subject can be found rapidly. An unusual feature is a comprehensive listing of all known standardization documents (test methods, practices, and specifications), including some international standards. Each document includes a brief description of its contents.

Thicker Than Water Nov 02 2022 Much of what you've heard about plastic pollution may be wrong. Instead of a great island of trash, the infamous Great Pacific Garbage Patch is made up of manmade debris spread over hundreds of miles of sea—more like a soup than a floating garbage dump. Recycling is more complicated than we were taught: less than nine percent of the plastic we create is reused, and the majority ends up in the ocean. And plastic pollution isn't confined to the open ocean: it's in much of the air we breathe and the food we eat. In *Thicker Than Water: The Quest for Solutions to the Plastic Crisis*, journalist Erica Cirino brings readers on a globe-hopping journey to meet the scientists and activists telling the real story of the plastic crisis. From the deck of a plastic-hunting sailboat with a disabled engine, to the labs doing cutting-edge research on microplastics and the chemicals we ingest, Cirino paints a full picture of how plastic pollution is threatening wildlife and human health. *Thicker Than Water* reveals that the plastic crisis is also a tale of environmental injustice, as poorer nations take in a larger share of the world's trash, and manufacturing chemicals threaten predominantly Black and low-income communities. There is some hope on the horizon, with new laws banning single-use items and technological innovations to replace plastic in our lives. But Cirino shows that we can only fix the problem if we face its full scope and begin to repair our throwaway culture. *Thicker Than Water* is an eloquent call to reexamine the systems churning out waves of plastic waste.

Plastic-Free Aug 31 2022 "Tells a story that could inspire everyday behavior change for all of us. Small steps, leading to one big milestone: a planet free of plastic pollution." —Daniella Dimitrova Russo, CEO and founder of Think Beyond Plastic™ Like many people, Beth Terry didn't think an individual could have much impact on the environment. But while laid up after surgery, she read an article about the staggering amount of plastic polluting the oceans, and decided then and there to kick her plastic habit. In *Plastic-Free*, she shows you how you can too, providing personal anecdotes, stats about the environmental and health problems related to plastic, and individual solutions and tips on how to limit your plastic footprint. Presenting both beginner and advanced steps, Terry includes handy checklists and tables for easy reference, ways to get involved in larger community actions, and profiles of individuals—Plastic-Free Heroes—who have gone beyond personal solutions to create change on a larger scale. Fully updated, *Plastic-Free* also includes sections on letting go of eco-guilt, strategies for coping with overwhelming problems, and ways to relate to other people who aren't as far along on the plastic-free path. Both a practical guide and the story of a personal journey from helplessness to empowerment, *Plastic-Free* is a must-read for those concerned about the ongoing health and happiness of themselves, their children, and the planet. "This is the tool that we've all been waiting for to ease the transition to going plastic-free. Time to wake up. Peace." —Rosanna Arquette, actor, Plastic Pollution Coalition member "Practical and hopeful, with a kind of cheerleading charm." —The Washington Post

Plastics and Environmental Sustainability Jul 26 2019 Survey's the issues typically raised in discussions of sustainability and plastics Discusses current issues not covered in detail previously such as ocean litter, migration of additives into food products and their recovery of plastics Covers post-consumer fate of plastics on land and in the oceans, highlighting the environmental impacts of disposal methods Details toxicity of plastics, particularly as it applies to human health Presents a clear analysis of the key plastic-related issues including numerous citations of the research base that supports and contradicts the popularly held notions

Plastics Jan 12 2021 Plastics are high-performance materials of wide use in the built environment. Their versatile technical properties are particularly fascinating. A broad range of form-giving and finishing processes makes plastic especially interesting for complex geometries in combination with digital planning processes. Following the pioneering plastic structures of the 1970s, a number of spectacular buildings have in recent years highlighted the outstanding technical and aesthetic potential of the material. Until now, however, there has been no systematic treatment of the use of plastic in architecture. This book seeks to fill that gap by providing an introduction to the structural and design possibilities of plastic. It introduces the material and its specific characteristics, describes various types of plastic in terms of their relevance for building, explains processing technologies and presents typical products and components. A concise presentation of twenty-five international built projects is organized by the type of application and the plastic involved and documents the broad range of plastic in architecture. Finally, a look ahead at the future describes the current state of the art in materials research.

Particulate Plastics in Terrestrial and Aquatic Environments Oct 28 2019 "Particulate Plastics in Terrestrial and Aquatic Environments provides a fundamental understanding of the sources of these plastics and the threats they pose to the environment. It demonstrates the ecotoxicity of particulate plastics using case studies and offers management practices to mitigate environmental contamination"--

Feedstock Recycling of Plastic Wastes Mar 14 2021 The use of plastic materials has seen a massive increase in recent years, and generation of plastic wastes has grown proportionately. Recycling of these wastes to reduce landfill disposal is problematic due to the wide variation in properties and chemical composition among the different types of plastics. Feedstock recycling is one of the alternatives available for consideration, and *Feedstock Recycling of Plastic Wastes* looks at the conversion of plastic wastes into valuable chemicals useful as fuels or raw materials. Looking at both scientific and technical aspects of the recycling developments, this book describes the alternatives available. Areas include chemical depolymerization, thermal processes, oxidation and hydrogenation. Besides conventional treatments, new technological approaches for the degradation of plastics, such as conversion under supercritical conditions and coprocessing with coal are discussed. This book is essential reading for those involved in plastic recycling, whether from an academic or industrial perspective. Consultants and government agencies will also find it immensely useful.

Easy Identification of Plastics and Rubbers Oct 01 2022 Polymers are found in every aspect of daily life. Materials must be carefully selected to ensure that properties match performance requirements, and this resource explains how to pick the appropriate materials.

Textbook of Plastic and Reconstructive Surgery Aug 19 2021 Written by experts from London's renowned Royal Free Hospital, *Textbook of Plastic and Reconstructive Surgery* offers a comprehensive overview of the vast topic of reconstructive plastic surgery and its various subspecialties for introductory plastic surgery and surgical science courses. The book comprises five sections covering the fundamental principles of plastic surgery, cancer, burns and trauma, paediatric plastic surgery and aesthetic surgery, and covers the breadth of knowledge that students need to further their career in this exciting field. Additional coverage of areas in which reconstructive surgery techniques are called upon includes abdominal wall reconstruction, ear reconstruction and genital reconstruction. A chapter on aesthetic surgery includes facial aesthetic surgery and blepharoplasty, aesthetic breast surgery, body contouring and the evolution of hair transplantation. The broad scope of this volume and attention to often neglected specialisms such as military plastic surgery make this a unique contribution to the field. Heavily illustrated throughout, *Textbook of Plastic and Reconstructive Surgery* is essential reading for anyone interested in furthering their knowledge of this exciting field. This book was produced as part of JISC's Institution as e-Textbook Publisher project. Find out more at <https://www.jisc.ac.uk/rd/projects/institution-as-e-textbook-publisher>

Say Goodbye to Plastic Dec 23 2021 A simple and powerful book educating people about the epidemic of plastic use and solutions for a plastic-free future. If you've heard of the plastic-free lifestyle, but think you don't have time for it in your busy life, prepare to be delightfully wrong. *Say Goodbye to Plastic* shows you how, whether you're seeking to knock plastic out of your life or just try out a few novel eco-hacks in your kitchen, bathroom, office or dining room. Plastic pollution activist and entrepreneur Sandra Ann Harris invites us to say goodbye to plastic, room by room. Opportunities abound to simplify our lives by re-thinking our wasteful habits—we just need to learn to recognize them.

Assessment of agricultural plastics and their sustainability: A call for action Aug 26 2019 This report presents the results of a study on agricultural plastic products used globally in a range of different value chains. The

study assessed the types and quantities of plastic products, their benefits and trade-offs. Sustainable alternative products or practices were identified for products assessed as having high potential to cause harm to human and ecosystem health or having poor end-of-life management. The report is based on data derived from peer-reviewed scientific papers, governmental and non-governmental organization's research reports, as well as from industry experts, including relevant trade bodies. The report's recommendations were verified during extensive consultation and review with FAO and external experts. The authors hope that the study will provide an impetus for discussion about the use of agricultural plastics, their benefits and trade-offs, and ultimately stimulate action to reduce their potential for harm to human health and the environment.

Plastic and Microplastic in the Environment Mar 26 2022 ORGANIC REACTIONS Thought-provoking discussions of the challenges posed by—and potential solutions to—plastic and microplastic pollution In *Plastic and Microplastic in the Environment: Management and Health Risks*, a team of distinguished environmental researchers delivers an up-to-date exploration of plastic and microplastic environmental contamination, conventional and advanced plastics management techniques, and the policies adopted across the globe to combat the phenomenon of plastics contamination. Containing a balanced focus on both conventional plastics and microplastics, this book discusses the potential health issues related to plastic and microplastic infiltration in a variety of global environments and environmental media, including freshwater environments, oceanic environments, soil and sediment, and air. Insightful treatments of commercial and social issues, including the roles of corporate social responsibility initiatives and general education in the fight against plastic and microplastic pollution, are provided as well. *Plastic and Microplastic in the Environment* also includes: A thorough introduction to plastic debris in global environments, including its accumulation and disintegration Comprehensive explorations of policies for strengthening recyclable markets around the world Practical discussions of the prevalence of microplastics in the marine environment, air, soil, and other environmental media In-depth examinations of wastewater treatment plants as a potential source point of microplastics, as well as conventional and advanced microplastic particle removal technologies Perfect for academics, postgraduates and advanced undergraduates in fields related to environmental science and plastics, *Plastic and Microplastic in the Environment: Management and Health Risks* will also earn a place in the libraries of professionals working in the plastics industries and environmental policymakers.

Chair in the Air and the Blue Plastic Bag Jun 24 2019 Written in rhyming verse, *Chair in the Air and the Blue Plastic Bag* is perfect for 3-8 year-olds. With big, bold illustrations and concise rhyming text this is a story that young children will enjoy and may prompt them and their families to change their behavior regarding using and disposing of plastic waste. A boy and his sister have a very special magical chair that flies them anywhere they want to go. On this adventure, they discover a bird trapped in a discarded blue plastic bag. Once the bird is freed, the kids decide to follow the bag to see where it goes. The bag encounters several obstacles as it blows through the wind. The story ends with an unexpected realization of the impact of human behavior on our environment and the negative effects of plastic waste. When the kids finally return home, they consult with their parents and come up with a few simple solutions to make things better. These solutions can be easily implemented by any child reading this book. 40 fully illustrated pages.

Plastic Purge Feb 22 2022 Presents the history and science behind plastics and teaches readers how to cut down on the amount of plastic in their lives. Original.

Plastic Legacies Sep 07 2020 There is virtually nowhere on earth that remains untouched by plastics and the situation presents a serious threat to our natural world. Despite the magnitude of the problem, the interventions most often put in place are consumer-led and market-based and only nominally capable of addressing the issue. As the problem worsens and neoliberal ideologies limit the world's responses to this crisis, there is a growing need for legislative frameworks that attend to the complex social and ecological issues associated with plastics. The contributors to this volume bring expertise from across academic disciplines to illustrate how plastics are produced, consumed, and discarded and to find holistic and integrated approaches that demonstrate an understanding of the wide-ranging problem. From the plasticization of earth's oceans to the endocrine disrupting chemicals that have the potential to seriously harm life as we know it, these essays beg the question that we all must answer: what is our plastic legacy? With contributions by: Imogen E. Napper, Sabine Pahl, Richard C. Thompson, Sasha Adkins, Stephanie B. Borrelle, Jennifer Provencher, Tina Ngata, Sven Bergmann, Christina Gerhardt, Elyse Stanes, Tridibesh Dey, Mike Michael, Laura McLauchlan, Johanne Tarpgaard, Deirdre McKay, Padmapani Perez, Lei Xiaoyu, and John Holland.

Plastic Sucks! Aug 07 2020 How can YOU help save our planet? This awesome and inspiring guide, written by musician and environmental activist Dougie Poynter, will tell you how to get involved in the mission to cut out single-use plastic. Plastic is everywhere and it sucks. It fills up our oceans, endangers our wildlife and never goes away. So it's time to take action, find ways to cut down our plastic use, and help protect our environment. Together we can make a difference! From the history of plastic to the effects of plastic on our planet to the innovations in plastic clean up and alternative materials, this book breaks down the plastic problem into easy digestible chapters (including "What's Going On", "Innovations in Cleanup," and "How to Create Change") that are packed with illustrations. And this isn't just a history of what's gone wrong with our environment; it's a handbook on how to change the world for better, empowering you to make everyday choices that help solve the plastic problem once and for all. *Plastic Sucks! How YOU Can Reduce Single-Use Plastic and Save Our Planet* shows us how we can all make small changes and become champions for our planet.

Year Book of Plastic and Aesthetic Surgery 2014 Jan 24 2022 The *Year Book of Plastic and Aesthetic Surgery* provides information valuable for the continued professional development of plastic surgeons at all levels of skill and knowledge. The *Year Book of Plastic and Aesthetic Surgery* presents abstracts of articles from journals worldwide that touch upon all aspects of plastic and reconstructive surgery. Commentaries from experienced surgeons evaluate the clinical importance of each article and discuss its application to clinical practice. Focused, fast, and insightful information for the busy surgeon.

Tupperware Oct 09 2020 From Wonder Bowls to Ice-Tup molds to Party Susans, Tupperware has become an icon of suburban living. Tracing the fortunes of Earl Tupper's polyethylene containers from early design to global distribution, Alison J. Clarke explains how Tupperware tapped into potent commercial and social forces, becoming a prevailing symbol of late twentieth-century consumer culture. Invented by Earl Tupper in the 1940s to promote thrift and cleanliness, the pastel plasticwares were touted as essential to a postwar lifestyle that emphasized casual entertaining and celebrated America's material abundance. By the mid-1950s the Tupperware party, which gathered women in a hostess's home for lively product demonstrations and sales, was the foundation of a multimillion-dollar business that proved as innovative as the containers themselves. Clarke shows how the “party plan” direct sales system, by creating a corporate culture based on women's domestic lives, played a greater role than patented seals and streamlined design in the success of Tupperware.

Plastic Waste for Sustainable Asphalt Roads Nov 09 2020 Waste polymers have been studied for various applications such as energy generation and biochemical production; however, their application in asphalt roads still poses some questions. Over the last decade, several studies have reported the utilization of waste plastics in roads using different methodologies and raw materials, but there is still significant inconsistency around this topic. What is the right methodology to recycle waste plastics for road applications? What is the correct type of waste plastics to be used in road applications? What environmental concerns could arise from the use of waste plastics in road applications? *Plastic Waste for Sustainable Asphalt Roads* covers the various processes and techniques for the utilization of waste plastics in asphalt mixes. The book discusses the various material properties and methodologies, effects of various methodologies, and combination of various polymers. It also provides information on the compatibility between bitumen and plastics, final asphalt performance, and environmental challenges. Discusses the processes and techniques for utilization of waste plastics in asphalt mixes. Features a life-cycle assessment of waste plastics in road surfaces and possible Environmental Product Declarations (EPD). Includes examples of on-field usage through various case studies.

Living Without Plastic Nov 29 2019 “An eye-opening guide on how to lessen one's dependence on plastics. . . . This is a clarion, convincing wake-up call to the scope of the global plastic problem and what readers can do about it. —Publishers Weekly Embrace a plastic-free lifestyle with more than 100 simple, stylish swaps for everything from pens and toothbrushes to disposable bottles and the 5 trillion plastic bags we use—and

throw out—every year. Use a natural loofah, not a synthetic sponge Buy milk in glass bottles or make homemade nut milk Opt for a waste-free shampoo bar Skip the printed receipt and opt for an email instead Wrap gifts beautifully with cloth Organized into five sections—At Home, Food & Drink, Health & Beauty, On the Go, and Special Occasions—Living Without Plastic is a cover-to-cover collection of doable, differencemaking solutions, including a 30-Day Plastic Detox Program.

Plastic Pollution Apr 02 2020 Plastic is an incredibly useful and versatile material that offers ease and convenience. Unfortunately it is difficult to recycle and takes a very long time to break down naturally. This book describes plastic pollution, especially as it effects the world's oceans, and offers solutions to the problem.

Operative Dictations in Plastic and Reconstructive Surgery Jun 28 2022 This text provides a comprehensive overview of operative dictations in plastic, aesthetic, and reconstructive surgical procedures, which will serve as a valuable resource for residents, fellows, and practicing surgeons. The book provides step-by-step operative details regarding all indexed plastic surgery cases that a resident is expected to be thoroughly acquainted with for his or her daily practice and examinations. Each case is preceded by a list of common indications, covering most of the situations in which particular procedures will be used, as well as a list of essential steps. Operative Dictations in Plastic and Reconstructive Surgery will serve as a very useful resource for physicians dealing with, and interested in the field of plastic surgery. It will also provide the related data for the newly minted practicing plastic surgeons. All chapters are written by authorities in their fields and include the most up to date scientific and clinical information.

Thermal Analysis of Plastics Jul 06 2020 Thermal analysis has proven to be one of the most important and meaningful test methods in the plastics industry and in testing laboratories. Although thermal analysis is used for fundamental studies related to materials science of polymers, its power lies in understanding this behavior during manufacturing processes. This understanding aids in process optimization, reduction of manufacturing cycle times, failure analysis as well as overall improvement of the material properties of the finished product, to name a few. In this book, the different test methods and their variations are described in detail, emphasizing the principles and their application in practice. Using practical examples, different approaches to problem solving are presented with a focus on the interpretation of the experimental results. Thermal analysis provides information on important properties of plastic materials, such as nucleation, crystallization, degree of crystallinity, recrystallization, melting and solidification, glass transition, curing and postcuring, thermal stability, thermal expansion, relaxation of orientation and internal stresses, pVT-data, and others.

Oxford Textbook of Plastic and Reconstructive Surgery Nov 21 2021 A perfect reference source for the practising plastic surgeon; the Oxford Textbook of Plastic and Reconstructive Surgery is a comprehensive reference text detailing all aspects of plastic surgery pertinent to a surgeon in training for specialisation while also suitable for use in preparation for the Intercollegiate Examination.

Peak Plastic: The Rise or Fall of Our Synthetic World May 28 2022 Shows why plastics, in aggregate, have become a toxin to humans, wildlife, and the planet, and proposes novel solutions that involve neither traditional recycling nor giving up plastic. • Provides a realistic solution for our use of plastic: not to eliminate it, but to innovate it • Views plastic not only as a known environmental and health hazard but as a material critical to our future and therefore worth revising for future use • Explains what we must do—and by when—in order to be able to keep using plastic without harming the planet or our health • Shows the links between the environmental, toxicological, and socioeconomic challenges in our use of plastic, and how these dangers can be remedied by supply chain innovation • Introduces two significant disruptive innovations that if implemented, will save us from the growing problem posed by synthetics

Handbook of Plastic Processes Dec 31 2019 "Handbook of Plastic Processes is the only comprehensive reference covering not just one, but all major processes used to produce plastic products—helping designers and manufacturers in selecting the best process for a given product while enabling users to better understand the performance characteristics of each process. The authors, all experts in their fields, explain in clear, concise, and practical terms the advantages, uses, and limitations of each process, as well as the most modern and up-to-date technologies available in their application."--Publisher's website.

Recycling of Plastic Materials Apr 14 2021 Combines topics discussing the state of art, analysis of processes successfully implemented in industrial practice, ideas concerning production with recycling in mind, and the new research developments offering practical solutions for recycling industry and product manufacturers. The major emphasis is given to polyolefins, polyethylene terephthalate, PVC, and rubber. Materials concerned include films, bottles, packing materials, paper, car batteries, plastics used in car interiors, tires, etc.

Plastic Waste and Recycling Jun 16 2021 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.

Permeability Properties of Plastics and Elastomers Apr 26 2022 Rev. ed. of: Permeability properties of plastics and elastomers / Massey, Liesl K. c2003. 2nd ed.

Accumulation May 04 2020 From food punnets to credit cards, plastic facilitates every part of our daily lives. It has become central to processes of contemporary socio-material living. Universalised and abstracted, it is often treated as the passive object of political deliberations, or a problematic material demanding human management. But in what ways might a 'politics of plastics' deal with both its specific manifestation in particular artefacts and events, and its complex dispersed heterogeneity? Accumulation explores the vitality and complexity of plastic. This interdisciplinary collection focuses on how the presence and recalcitrance of plastic reveals the relational exchanges across human and synthetic materialities. It captures multiplicity by engaging with the processual materialities or plasticity of plastic. Through a series of themed essays on plastic materialities, plastic economies, plastic bodies and new articulations of plastic, the editors and chapter authors examine specific aspects of plastic in action. How are multiple plastic realities enacted? What are their effects? This book will be of interest to students and scholars of sociology, human and cultural geography, environmental studies, consumption studies, science and technology studies, design, and political theory.

Plastics Society. Has Plastic the Potential to be Sustainable? Jan 30 2020 Bachelor Thesis from the year 2014 in the subject Economy - Environment economics, grade: 1,3, University of Paderborn, language: English, abstract: This paper deals with the omnipresence of plastics as well as its popularity due to its diverse and advantageous properties, while it focuses especially on resulting environmental as well as human health consequences. Therefore, the material plastic and its key features are introduced initially, with a special reference to plastic carrier bags that offer consumers primarily convenience. In addition, a general overview of the prospering plastic industry is given. The paper aims to answer the question of whether the development of plastics can be described as sustainable at present - or whether it is supposed to become sustainable in the near future. Hence, the European waste hierarchy will be examined precisely, which reveals current processing of plastic waste. Afterwards, ecological and social externalities, as well as related market failures are outlined. While opting for solutions, variations of market instruments are applied to plastic carrier bags that serve as a potent example. In contrast to the classical theory that targets on the reduction of plastic waste itself, the Cradle-to-Cradle model takes a different approach. It promotes to rethink the design of plastic products in order to keep them in a continuous life cycle instead of focusing exclusively on the reduction of post-consumer plastic waste.

Plastic Soup May 16 2021 Plastics have transformed every aspect of our lives. Yet the very properties that make them attractive--they are cheap to make, light, and durable--spell disaster when trash makes its way into

the environment. **Plastic Soup: An Atlas of Ocean Pollution** is a beautifully-illustrated survey of the plastics clogging our seas, their impacts on wildlife and people around the world, and inspirational initiatives designed to tackle the problem. With striking photography and graphics, **Plastic Soup** brings plastic pollution to brilliant life for readers. According to some estimates, if we continue on our current path, the oceans will contain more plastic than fish by the year 2050. Created to inform and inspire readers, **Plastic Soup** is a critical tool in the fight to reverse this trend.

Life Without Plastic Sep 19 2021 After the birth of their son, Jay Sinha and Chantal Plamondon set out on a journey to eliminate plastic baby bottles as the Canadian government banned BPA. When they found it was difficult to procure glass baby bottles, Jay and Chantal made it their mission to not only find glass and metal replacements for plastic, but to make those products accessible to the public as well. Printed on wood-free FSC (sustainable certified) paper and with BPA-free ink, **Life Without Plastic** strives to create more awareness on the issue of BPA, polycarbonates and other single-use plastics, and provides readers with safe, reusable and affordable alternatives. While plastic has its uses in technology, medical and some products around the home, certain single-use plastics release chemicals when put in contact with food and water. These disposable plastics are also found in produce and cleaning products. Jay and Chantal show readers how to analyze their personal plastic use, find alternatives and create easy replacements in this step-by-step guide. Get your family healthier, spread consciousness and create positive reflection on you for helping the environment by taking action.

Plastic Feb 10 2021 The world consumes over 300 million tonnes of plastic each year. But when did we start using plastic? And why? Where does all the plastic waste go? Journey through the life cycle of plastic -- how plastics are produced, the many uses of plastics throughout the last century, how our plastic use has spiralled out of control, and what we can do about it.

How to Give Up Plastic Jul 18 2021 An accessible guide to the changes we can all make—small and large—to rid our lives of disposable plastic and clean up the world’s oceans **How to Give Up Plastic** is a straightforward guide to eliminating plastic from your life. Going room by room through your home and workplace, Greenpeace activist Will McCallum teaches you how to spot disposable plastic items and find plastic-free, sustainable alternatives to each one. From carrying a reusable straw, to catching microfibers when you wash your clothes, to throwing plastic-free parties, you’ll learn new and intuitive ways to reduce plastic waste. And by arming you with a wealth of facts about global plastic consumption and anecdotes from activists fighting plastic around the world, you’ll also learn how to advocate to businesses and leaders in your community and across the country to commit to eliminating disposable plastics for good. It takes 450 years for a plastic bottle to fully biodegrade, and there are around 12.7 million tons of plastic entering the ocean each year. At our current pace, in the year 2050 there could be more plastic in the oceans than fish, by weight. These are alarming figures, but plastic pollution is an environmental crisis with a solution we can all contribute to.