



Plastic

THE MAKING OF A
SYNTHETIC CENTURY



STEPHEN FENICHELL

Plastic The Making Of A Synthetic Century

Jackson Lears



Plastic The Making Of A Synthetic Century:

Plastic Stephen Fenichell, 1996 Tracing the obscure origins of synthetic materials this book presents a century's worth of fascinating inventors, speculators and designers who transformed society and ushered in the plastic invasion. Written in the tradition of *The Machine That Changed the World*, *Plastic* is a fresh, often surprising look at how this ubiquitous man-made substance has shaped the world we live in. *Green Plastics* E. S. Stevens, 2020-06-16 Plastics are everywhere. Bags, bank cards, bottles, and even boats can all be made of this celebrated but much maligned material. Yet most of us know next to nothing about plastics. We do know that they are practical and cheap, but they also represent a huge environmental problem for they literally take ages to decompose. In this engaging book, E. S. Stevens tells us everything we have always wondered about plastics and of the efforts in America, Europe, and Asia to develop a new breed of environmentally friendly plastics. He points to a possible future where plastics will no longer be made of petroleum but of plants. The first two chapters assess the increased use of plastics as a relatively new alternative to other materials. The third chapter introduces us to their impact on the environment and strategies for their disposal or recycling. The next two chapters cover basic concepts and terms used in polymer sciences and provide some basic chemistry. With these fundamentals in tow, the author compares how petroleum-based and biological polymers are made and the various ways in which they decompose. He acquaints readers with the emerging technologies, their commercial viability, and their future. Finally, instructions are given for preparing basic bioplastics using readily available materials. Nonspecialists will find *Green Plastics* a concise introduction to this exciting interdisciplinary topic, an introduction otherwise not available. For students, it provides easy entry to an area of science with wide appeal and current importance; for teachers, excellent background reading for courses in various sciences. The prospect of depleted fossil fuel supplies and the potential benefits of bioplastics to the environment and to rural areas that could supply the raw materials make this book a compelling presentation of a subject whose time has come. **Reader's Guide to**

the History of Science Arne Hessenbruch, 2013-12-16 The *Reader's Guide to the History of Science* looks at the literature of science in some 550 entries on individuals, Einstein, institutions, and disciplines. Mathematics, general themes, Romantic Science, and central concepts. Paradigm and Fact. The history of science is construed widely to include the history of medicine and technology, as is reflected in the range of disciplines from which the international team of 200 contributors are drawn.

History of Soybeans and Soyfoods in Michigan (1853-2021) William Shurtleff; Akiko Aoyagi, 2021-09-19 The world's most comprehensive, well-documented, and well-illustrated book on this subject. With extensive subject and geographic index, 211 photographs, and illustrations, mostly color. Free of charge in digital PDF format. **Packaged Pleasures** Gary S. Cross, Robert Proctor, 2014-09-30 From the candy bar to the cigarette, records to roller coasters, a technological revolution during the last quarter of the nineteenth century precipitated a colossal shift in human consumption and sensual experience. Food, drink, and many other consumer goods came to be mass-produced, bottled, canned, condensed, and distilled, unleashing

new and intensified surges of pleasure delight thrill and addiction In *Packaged Pleasures* Gary S Cross and Robert N Proctor delve into an uncharted chapter of American history shedding new light on the origins of modern consumer culture and how technologies have transformed human sensory experience In the space of only a few decades junk foods cigarettes movies recorded sound and thrill rides brought about a revolution in what it means to taste smell see hear and touch New techniques of boxing labeling and tubing gave consumers virtually unlimited access to pleasures they could simply unwrap and enjoy Manufacturers generated a seemingly endless stream of sugar filled high fat foods that were delicious but detrimental to health Mechanically rolled cigarettes entered the market and quickly addicted millions And many other packaged pleasures dulled or displaced natural and social delights Yet many of these same new technologies also offered convenient and effective medicines unprecedented opportunities to enjoy music and the visual arts and more hygienic varied and nutritious food and drink For better or for worse sensation became mechanized commercialized and to a large extent democratized by being made cheap and accessible Cross and Proctor have delivered an ingeniously constructed history of consumerism and consumer technology that will make us all rethink some of our favorite things

Conjurers, Cranks, Provincials, and Antediluvians Jackson Lears, 2024-06-25 The best essays from America's premier cultural historian Jackson Lears has been hailed as the dean of American cultural history and one of the few pre eminent historians of our time Well known for his elegant daring scholarship on topics such as antimodernism advertising and luck Lears has also been a critic and essayist whose public facing writings published in journals such as the *New Republic* *The Nation* the *London Review of Books* and the *New York Review of Books* have explored a variety of subjects and themes both contemporary and historical from modern environmentalism to liberal arts education from the plastics industry to the happiness industry from Theodore Roosevelt to Seymour Hersh from Van Wyck Brooks to Anne Applebaum The essays collected here written over the course of over forty years are absorbing reading for anyone interested in American history culture or intellectual life and provide models of an engaged critic at work on topics and figures both high and low Offering compelling lenses on historical subjects while setting contemporary culture in rich historical perspective the essays bridge the gap between history and social commentary and afford a sweeping view of the changing intellectual scene from 1977 to the present

SEE Andrea Pavoni, Danilo Mandic, Caterina Nirta, Andreas Philippopoulos-Mihalopoulos, 2018-02-22 Vision traditionally occupies the height of the sensorial hierarchy The sense of clarity and purity conveyed by vision allows it to be explicitly associated with truth and knowledge The law has always relied on vision and representation from eye witnesses to photography to imagery and emblems The law and its normative gaze can be understood as that which decrees what is permitted to be and become visible and what is not Indeed even if law's perspectival view is bound to be betrayed by the realities of perception it is nonetheless productive of real effects on the world This first title in the interdisciplinary series *Law and the Senses* asks how we can develop new theoretical approaches to law and seeing that go beyond a simple critique of the legal pretension to

truth This volume aims to understand how law might see and unsee and how in its turn is seen and unseen It explores devices and practices of visibility the evolution of iconology and iconography and the relation between the gaze of the law and the blindness of justice The contributions all radically interdisciplinary are drawn from photography legal theory philosophy and poetry **The Glamour System** S. Gundle, C. Castelli, 2006-04-18 In the twentieth century glamour has often been associated with the cinema and its stars though fashion high society popular music shopping glossy magazines and advertising have all sought to harness its allure The authors explore the origins and uses of the aura of glamour and trace its history and power as a language of visual seduction **The Encyclopedia of the Industrial Revolution in World History** Kenneth E. Hendrickson III, 2014-11-25 As editor Kenneth E Hendrickson III notes in his introduction Since the end of the nineteenth century industrialization has become a global phenomenon After the relative completion of the advanced industrial economies of the West after 1945 patterns of rapid economic change invaded societies beyond western Europe North America the Commonwealth and Japan In The Encyclopedia of the Industrial Revolution in World History contributors survey the Industrial Revolution as a world historical phenomenon rather than through the traditional lens of a development largely restricted to Western society The Encyclopedia of the Industrial Revolution in World History is a three volume work of over 1 000 entries on the rise and spread of the Industrial Revolution across the world Entries comprise accessible but scholarly explorations of topics from the aerospace industry to zaibatsu Contributor articles not only address topics of technology and technical innovation but emphasize the individual human and social experience of industrialization Entries include generous selections of biographical figures and human communities with articles on entrepreneurs working men and women families and organizations They also cover legal developments disasters and the environmental impact of the Industrial Revolution Each entry also includes cross references and a brief list of suggested readings to alert readers to more detailed information The Encyclopedia of the Industrial Revolution in World History includes over 300 illustrations as well as artfully selected extended quotations from key primary sources from Thomas Malthus Essay on the Principal of Population to Arthur Young s look at Birmingham England in 1791 This work is the perfect reference work for anyone conducting research in the areas of technology business economics and history on a world historical scale **History of Industrial Uses of Soybeans (Nonfood, Nonfeed) (660 CE-2017)** William Shurtleff; Akiko Aoyagi, 2017-12-03 The world s most comprehensive well documented and well illustrated book on this subject With extensive subject and geographical index 145 photographs and illustrations mostly color Free of charge in digital PDF format on Google Books **An Introduction to Plastics** Hans-Georg Elias, 2003-11-07 Die Leser mussten lange warten Jetzt endlich zehn Jahre nach Erscheinen der ersten Auflage gibt es die grundlegend bearbeitete Neuauflage dieses Klassikers inhaltlich erweitert und neu strukturiert Doch an seinem Konzept hat sich nichts ge ndert Es ist eine pr zise aber nicht mathematische Einf hrung in das Gebiet der Kunststoffe Die konomische Bedeutung von Kunststoffen bzw Polymeren ist weiterhin enorm H chste Zeit also f r die Neuauflage dieser

erfolgreichen Einführung Sie gibt einen aktuellen und ebenso klaren wie detaillierten Überblick über Rohstoffe Herstellungsverfahren und die Materialeigenschaften der Kunststoffe Letztere werden zu den molekularen und supermolekularen Eigenschaften der Polymere in Beziehung gesetzt Die Kapitel zu Polymerverbindungen Morphologie Flie verhalten und Verarbeitung wurden gegen über der ersten Auflage erheblich erweitert Neu hinzugekommen sind Abschnitte zur elektrischen Leitfähigkeit sowie zu nicht linearen optischen Eigenschaften Auch über die neuesten Entsorgungsverfahren Bescheid wissen möchte wird von Elias bestens informiert Ein wesentlicher Grund für den Erfolg der Voraufgabe sollte auch ihre Fortsetzung zum Bestseller werden lassen der klare mitunter brillante Stil des Autors So komplex die Materie auch sein mag Elias findet die angemessene sprachliche Form Dass Verständlichkeit in diesem Buch ganz groß geschrieben wird belegen auch sein Aufbau sowie der sehr praktische übersichtliche Index Ob Chemiker Physiker Materialwissenschaftler Ingenieure oder Techniker Wer sich einen Überblick über Kunststoffe und Polymere verschaffen möchte dürfte kaum ein geeigneteres Buch finden

Plastics Technology Handbook - Volume 2 Don Rosato, 2011-10-13 This comprehensive handbook provides a simplified practical and innovative approach to understanding the design and manufacture of plastic products It will expand the reader's understanding of plastics technology by defining and focusing on past current and future technical trends The content is presented so that both technical and nontechnical readers can understand the interrelationships of materials to processes Different plastic products are examined and their related critical factors are shown from meeting performance requirements in different environments to reducing costs and targeting for zero defects Examples used include small to large and simple to complex shapes Information is included on static properties tensile flexural dynamic properties creep fatigue impact and physical and chemical properties Extensive reference sources and useful data and physical and chemical constants are also provided Volume 2 offers detailed coverage of most major plastics processing techniques including injection molding extrusion blow molding and thermoforming

Classed Emotions Anna Romanowicz, Ahana Choudhury, 2025-09-30 This book explores how urban spaces encompass shape and reconfigure the emotional landscapes and socio cultural specters of their inhabitants It highlights the arenas in which various politics and strategies of emotional relations are represented created enacted and regulated through the inhabitants lives and lifestyles Exploring this the chapters in the volume bring together and analyze the myriad forms of intersections within and between urban centers in India and the Indian diaspora as well as classed emotions The authors embark on scholarly inquiries to highlight the complex and fluid dynamics through which urban spaces and the class of their inhabitants question attribute influence and perpetuate the diverse emotional states and responses and vice versa they examine the ways in which emotive subjectivities relations experiences and practices question and influence multiple urban formations power dynamics and spaces They reveal how emotional and urban landscapes are not only represented but are also affected by the social class of the denizens Part of the Urban Futures series the volume will be indispensable to scholars and researchers of urban

studies anthropology sociology cultural studies urban planning urban policy public policy and architecture It will also be of interest to the professional architects urban designers social geographers and policymakers **Excel Senior High School**

Peter Metcalfe, Roger Metcalfe, 2004 This book contains coverage of the HSC Modules of the HSC Engineering Studies course as well as material relevant to Year 12 students of similar courses in other States such as the Engineering Technology course in Queensland From back cover

Consumed Nostalgia Gary Cross, 2015-09-08 Nostalgia isn't what it used to be For many of us modern memory is shaped less by a longing for the social customs and practices of the past or for family heirlooms handed down over generations and more by childhood encounters with ephemeral commercial goods and fleeting media moments in our age of fast capitalism This phenomenon has given rise to communities of nostalgia whose members remain loyal to the toys television and music of their youth They return to the theme parks and pastimes of their upbringing hoping to reclaim that feeling of childhood wonder or teenage freedom Consumed nostalgia took definite shape in the 1970s spurred by an increase in the turnover of consumer goods the commercialization of childhood and the skillful marketing of nostalgia Gary Cross immerses readers in this fascinating and often delightful history unpacking the cultural dynamics that turn pop tunes into oldies and childhood toys into valuable commodities He compares the limited appeal of heritage sites such as Colonial Williamsburg to the perpetually attractive power of a Disney theme park and reveals how consumed nostalgia shapes how we cope with accelerating change Today nostalgia can be owned collected and easily accessed making it less elusive and often more fun than in the past but its commercialization has sometimes limited memory and complicated the positive goals of recollection By unmasking the fascinating idiosyncratic character of modern nostalgia Cross helps us better understand the rituals of recall in an age of fast capitalism

Decomposed Kyle Devine, 2019-10-15 The hidden material histories of music Music is seen as the most immaterial of the arts and recorded music as a progress of dematerialization an evolution from physical discs to invisible digits In *Decomposed* Kyle Devine offers another perspective He shows that recorded music has always been a significant exploiter of both natural and human resources and that its reliance on these resources is more problematic today than ever before Devine uncovers the hidden history of recorded music what recordings are made of and what happens to them when they are disposed of Devine's story focuses on three forms of materiality Before 1950 78 rpm records were made of shellac a bug based resin Between 1950 and 2000 formats such as LPs cassettes and CDs were all made of petroleum based plastic Today recordings exist as data based audio files Devine describes the people who harvest and process these materials from women and children in the Global South to scientists and industrialists in the Global North He reminds us that vinyl records are oil products and that the so called vinyl revival is part of petrocapiatalism The supposed immateriality of music as data is belied by the energy required to power the internet and the devices required to access music online We tend to think of the recordings we buy as finished products Devine offers an essential backstory He reveals how a range of apparently peripheral people and processes are actually

central to what music is how it works and why it matters

Plastic Matter Heather Davis, 2022-02-04 Plastic is ubiquitous It is in the Arctic in the depths of the Mariana Trench and in the high mountaintops of the Pyrenees It is in the air we breathe and the water we drink Nanoplastics penetrate our cell walls Plastic is not just any material it is emblematic of life in the twentieth and twenty first centuries In *Plastic Matter* Heather Davis traces plastic's relations to geology media biology and race to show how matter itself has come to be understood as pliable disposable and consumable The invention and widespread use of plastic Davis contends reveals the dominance of the Western orientation to matter and its assumption that matter exists to be endlessly manipulated and controlled by humans Plastic's materiality and pliability reinforces these expectations of what matter should be and do Davis charts these relations to matter by mapping the queer multispecies relationships between humans and plastic eating bacteria and analyzing photography that documents the racialized environmental violence of plastic production In so doing Davis provokes readers to reexamine their relationships to matter and life in light of plastic's saturation

Polymer Analysis Barbara H. Stuart, 2008-04-30 This book introduces the techniques used for the analysis of polymers It covers the main aspects of polymer science and technology identification polymerization molecular weight structure surface properties degradation and mechanical properties Clear explanations of each analytical technique Describes the application of techniques to the study of polymers Encourages learning through numerous self assessment questions and answers Structured for flexible learning

The Routledge Handbook of Archaeology and Plastics Genevieve Godin, Þóra Pétursdóttir, Estelle Praet, John Schofield, 2024-09-17 The Routledge Handbook of Archaeology and Plastics investigates the archaeology of the contemporary world through the lens of its most distinguishing and problematic material Plastics are ubiquitous and have been so for nearly three generations since they became widely used in the early 1950s Plastics will persist for millennia their legacies as toxic heritage being felt deep into the future In this book comprising 32 original at times disturbing and critically engaged contributions scholars from archaeology and other cognate disciplines explore plastics from a number of different angles and perspectives Together these contributions highlight the dilemma that plastics present their usefulness on the one hand and the threats they present to environmental health on the other The volume also explores the lessons that archaeologists can learn from plastics about episodes of mass production consumption and toxicity in the past and also importantly about the future This important and timely collection will therefore be of interest to all archaeologists irrespective of their period of study or their geographical focus and to students of archaeology and cultural heritage It will also be relevant for researchers and students in other fields of study that focus on plastics and their environmental and social impacts Ultimately this book concerns the contemporary world and the impact of people upon it through the archaeological lens

Engineering in a Land-grant Context Alan I Marcus, 2005 Annotation *Engineering in a Land Grant Context* considers the US government's first foray into higher education by examining engineering education at the nation's land grant universities over the past 140 years The authors

demonstrate how that history has framed the present and suggest how it is likely to influence the fashioning of the future

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