

# DIGITAL RUBBISH

a natural history of electronics

Jennifer Gabrys



# Digital Rubbish A Natural History Of Electronics

## Jennifer Gabrys

**JL Elias**



## **Digital Rubbish A Natural History Of Electronics Jennifer Gabrys:**

Digital Rubbish Jennifer Gabrys, 2013-04-26 This is a study of the material life of information and its devices of electronic waste in its physical and electronic incarnations a cultural and material mapping of the spaces where electronics in the form of both hardware and information accumulate break down or are stowed away Where other studies have addressed digital technology through a focus on its immateriality or virtual qualities Gabrys traces the material spatial cultural and political infrastructures that enable the emergence and dissolution of these technologies In the course of her book she explores five interrelated spaces where electronics fall apart from Silicon Valley to Nasdaq from containers bound for China to museums and archives that preserve obsolete electronics as cultural artifacts to the landfill as material repository *Digital Rubbish A Natural History of Electronics* describes the materiality of electronics from a unique perspective examining the multiple forms of waste that electronics create as evidence of the resources labor and imaginaries that are bundled into these machines Ranging across studies of media and technology as well as environments geography and design Jennifer Gabrys draws together the far reaching material and cultural processes that enable the making and breaking of these technologies

**Inside the Machine: Art and Invention in the Electronic Age** Megan Prelinger, 2015-08-17 A visual history of the electronic age captures the collision of technology and art and our collective visions of the future A hidden history of the twentieth century s brilliant innovations as seen through art and images of electronics that fed the dreams of millions A rich historical account of electronic technology in the twentieth century *Inside the Machine* journeys from the very origins of electronics vacuum tubes through the invention of cathode ray tubes and transistors to the bold frontier of digital computing in the 1960s But as cultural historian Megan Prelinger explores here the history of electronics in the twentieth century is not only a history of scientific discoveries carried out in laboratories across America It is also a story shaped by a generation of artists designers and creative thinkers who gave imaginative form to the most elusive matter of all electrons and their revolutionary powers As inventors learned to channel the flow of electrons starting revolutions in automation bionics and cybernetics generations of commercial artists moved through the traditions of Futurism Bauhaus modernism and conceptual art finding ways to link art and technology as never before A visual tour of this dynamic era *Inside the Machine* traces advances and practical revolutions in automation bionics computer language and even cybernetics Nestled alongside are surprising glimpses into the inner workings of corporations that shaped the modern world AT T General Electric Lockheed Martin While electronics may have indelibly changed our age *Inside the Machine* reveals a little known explosion of creativity in the history of electronics and the minds behind it *Electronic Waste* Josh Lepawsky, 2025-02-06 The United Nations has reported that the world is on track to produce over 180 billion pounds of electronic waste e waste by 2030 This tidal wave of discarded electronic products including cellular phones laptop and desktop computers televisions solar panels major household appliances and telecommunications equipment poses a host of serious environmental and public health problems

and challenges Electronic Waste A Reference Handbook provides readers with an illuminating survey of the myriad issues and controversies surrounding the collection treatment disposal and recycling of electric and electronic products including trends and challenges related to public health social justice and environmental protection and stewardship It also discusses ways in which increasingly electronics dependent societies and economies are factoring environmental social and public health considerations into their e waste mitigation recycling and disposal strategies The book is further supplemented with perspectives from experts in the field of electronic waste profiles of important organizations and agencies and a chronology of major events and developments

Atlas of Petromodernity Alexander Klose, Benjamin Steininger, 2024-07-05 The Atlas of Petromodernity is many things in one historical and geographical non fiction cultural theory essay and picture book In forty four short essays inspired by an equal amount of pictorial findings Klose and Steininger develop a technical geographical political and speculative panorama of the declining era of petroleum modernity The authors stroll through Baku Rotterdam and Louisiana into Manchuria and through the Vienna Basin They read Bertolt Brecht technical manuals and petroculture theory and they listen to Neil Young They go to the moon through refineries and over highways emptied by the COVID 19 pandemic They confront petrochemistry with petromelancholy catalysis with catharsis cosmos with cosmetics The Atlas of Petromodernity tackles the contradictory ambivalences of a substance that has been vital for our epoch and whose roles and meanings need to be understood in order to be able to leave this epoch behind

*Beyond Digital* Mario Carpo, 2023-04-18 Recasting computational design a new modern agenda for a post industrial post pandemic world Mass production was the core technical logic of industrial modernity for the last hundred years architects and designers have tried to industrialize construction and standardize building materials and processes in the pursuit of economies of scale But this epochal march of modernity is now over In *Beyond Digital* Mario Carpo reviews the long history of the computational mode of production showing how the merger of robotic automation and artificial intelligence will stop and reverse the modernist quest for scale Today s technologies already allow us to use nonstandard building materials as found or as made and assemble them in as many nonstandard intelligent adaptive ways as needed the microfactories of our imminent future will be automated artisan shops The post industrial logic of computational manufacturing has been known and theorized for some time By tracing its theoretical and technical sources and reviewing the design theories that accompanied its rise Carpo shows how the computational project long under the sway of powerful antimodern ideologies is now being recast by the urgency of the climate crisis which has vindicated its premises and by the global pandemic which has tragically proven its viability Looking at the work of a new generation of designers technologists and producers *Beyond Digital* offers a new modern agenda for our post industrial future

*Critical Theory at a Crossroads* Stijn De Cauwer, 2018-07-31 We are living in an age of crisis or an age in which everything is labeled a crisis Financial debt and refugee crises have erupted The word has also been applied to the Arab Spring and its aftermath Brexit the 2016 U S election and many other international events Yet the term has

contradictory political and strategic meanings for those challenging power structures and those seeking to preserve them For critics of the status quo can the rhetoric of crisis be used to foment urgency around issues like climate change and financialization or does framing a situation as a crisis play into the hands of the existing political order which then seeks to tighten the leash by creating a state of emergency Critical Theory at a Crossroads presents conversations with prominent theorists about the crises that have marked the past years the protest movements that have risen up in response and the use of the term in political discourse Tariq Ali Rosi Braidotti Wendy Brown Maurizio Lazzarato Angela McRobbie Jean Luc Nancy Antonio Negri Jacques Rancière Saskia Sassen and Joseph Vogl offer their views on contemporary challenges and how we might address them candidly discussing the alternatives that new social movements have offered alongside an exchange between Zygmunt Bauman and Roberto Esposito on theories of community Sparring over crucial developments in these past years of catastrophe and the calamity of everyday life under capitalism they shed light on how crises and the discourse of crisis can both obscure and reveal fundamental aspects of modern societies **Numbered Lives** Jacqueline

Wernimont, 2019-01-01 A feminist media history of quantification uncovering the stories behind the tools and technologies we use to count measure and weigh our lives and realities Anglo American culture has used media to measure and quantify lives for centuries Historical journal entries map the details of everyday life while death registers put numbers to life's endings Today we count our daily steps with fitness trackers and quantify births and deaths with digitized data How are these present day methods for measuring ourselves similar to those used in the past In this book Jacqueline Wernimont presents a new media history of western quantification uncovering the stories behind the tools and technologies we use to count measure and weigh our lives and realities **Numbered Lives** is the first book of its kind a feminist media history that maps connections not only between past and present day quantum media but between media tracking and long standing systemic inequalities Wernimont explores the history of the pedometer mortality statistics and the census in England and the United States to illuminate the entanglement of Anglo American quantification with religious imperial and patriarchal paradigms In Anglo American culture Wernimont argues counting life and counting death are sides of the same coin one that has always been used to render statistics of life and death more valuable to corporate and state organizations **Numbered Lives** enumerates our shared media history helping us understand our digital culture and inheritance **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 petrocapi-talism 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

### **Software, Infrastructure, Labor Ned**

Rossiter,2016-06-23 Infrastructure makes worlds Software coordinates labor Logistics governs movement These pillars of contemporary capitalism correspond with the materiality of digital communication systems on a planetary scale Ned Rossiter theorizes the force of logistical media to discern how subjectivity and labor economy and society are tied to the logistical imaginary of seamless interoperability Contingency haunts logistical power Technologies of capture are prone to infrastructural breakdown sabotage and failure Strategies of evasion anonymity and disruption unsettle regimes of calculation and containment We live in a computational age where media again disappear into the background as infrastructure Software Infrastructure Labor intercuts transdisciplinary theoretical reflection with empirical encounters ranging from the Cold War legacy of cybernetics shipping ports in China and Greece the territoriality of data centers video game design and scrap metal economies in the e waste industry Rossiter argues that infrastructural ruins serve as resources for the collective design of blueprints and prototypes demanded of radical politics today

### **Sustainable Media Nicole**

Starosielski,Janet Walker,2016-02-19 Sustainable Media explores the many ways that media and environment are intertwined from the exploitation of natural and human resources during media production to the installation and disposal of media in the landscape from people s engagement with environmental issues in film television and digital media to the mediating properties of ecologies themselves Edited by Nicole Starosielski and Janet Walker the assembled chapters expose how the social and representational practices of media culture are necessarily caught up with technologies infrastructures and environments Through in depth analyses of media theories practices and objects including cell phone towers ecologically themed video games Geiger counters for registering radiation and sound waves traveling through the ocean contributors question the sustainability of the media we build exchange and inhabit and chart emerging alternatives for media ecologies

*Disorienting Politics* Fan Yang,2024-06-03 Disorienting Politics mines 21st century media artifacts including films like The Martian and TV streaming media shows such as Firefly and House of Cards to make visible the economic cultural political and ecological entanglements of China and the United States Describing these transpacific entanglements as Chimerica coined by economic historians to reference the symbiosis of China and America Yang examines how Chimerican media originating in the US but traversing national boundaries in their production circulation and consumption co create the

figure of rising China and extend a political imagination beyond the conventional ground of the nation Examining how Chimerican media are shaped by and perpetuate uneven power relations *Disorienting Politics* argues that the pervasive tendency among wide ranging cultural producers to depict the Chinese state as a racialized Other in American media life diminishes the possibility of engaging transpacific entanglements as a basis for envisioning new political horizons Such othering of China not only results in overt racism against people of Asian descent Yang argues but also impacts the wellbeing of people of color more generally This interdisciplinary book demonstrates the ways in which race is embedded in geopolitics even when the subject of discussion is not the people but the Chinese state Bridging media and cultural studies Asian and Asian American studies geography and globalization studies *Disorienting Politics* calls for a relational politics that acknowledges the multifarious interconnectivity between people places media and environment

**Underground** Blake Atwood, 2021-09-28 How Iranians forged a vibrant informal video distribution infrastructure when their government banned all home video technology in 1983 In 1983 the Iranian government banned the personal use of home video technology In *Underground* Blake Atwood recounts how in response to the ban technology enthusiasts cinephiles entrepreneurs and everyday citizens forged an illegal but complex underground system for video distribution Atwood draws on archival sources including trade publications newspapers memoirs films and laws but at the heart of the book lies a corpus of oral history interviews conducted with participants in the underground He argues that videocassettes helped to institutionalize the broader underground within the Islamic Republic As Atwood shows the videocassette underground reveals a great deal about how people construct vibrant cultures beneath repressive institutions It was not just that Iranians gained access to banned movies but rather that they established routes acquired technical knowledge broke the law and created rituals by passing and trading plastic videocassettes As material objects the videocassettes were a means of negotiating the power of the state and the agency of its citizens By the time the Ministry of Culture and Islamic Guidance lifted the ban in 1994 millions of videocassettes were circulating efficiently and widely throughout the country The very presence of a video underground signaled the failure of state policy to regulate media Embedded in the informal infrastructure even in the videocassettes themselves was the triumph of everyday people over the state

*Technologies of Vision* Steve F Anderson, 2017-10-20 An investigation of the computational turn in visual culture centered on the entangled politics and pleasures of data and images If the twentieth century was tyrannized by images then the twenty first is ruled by data In *Technologies of Vision* Steve Anderson argues that visual culture and the methods developed to study it have much to teach us about today s digital culture but first we must examine the historically entangled relationship between data and images Anderson starts from the supposition that there is no great divide separating pre and post digital culture Rather than creating an insular field of new and inaccessible discourse he argues it is more productive to imagine that studying the digital is coextensive with critical models especially the politics of seeing and knowing developed for understanding the visual Anderson s investigation takes

on an eclectic array of examples ranging from virtual reality culture analytics and software art to technologies for computer vision face recognition and photogrammetry Mixing media archaeology with software studies Anderson mines the history of technology for insight into both the politics of data and the pleasures of algorithms He proposes a taxonomy of modes that describe the functional relationship between data and images in the domains of space surveillance and data visualization At stake in all three are tensions between the totalizing logic of data and the unruly chaos of images

**Gathering Electronic Waste in Tanzania** Samwel Moses Ntapanta, 2024-12-16 Discussions of waste and electronic discard management often view micro scale ingenious activities around unregulated recycling centers in the Global South only as a source of pollution Gathering Electronic Waste in Tanzania Labor Value and Toxicity goes further and explores the complexities of electronic waste management Samwel Moses Ntapanta examines the materialities of electronics and e discards toxicity and the sociocultural and economic fabrics of e waste management in Tanzania He traces the lifecycle of electronic goods beyond their discard in the Global South from the importation of used goods to cycles of repair and from the collection of scrap to repurposing materials for manufacturing Through the concept of gathering Ntapanta provides insight into the effects of unregulated mechanisms to address the e waste problem He argues that understanding this connection between informal workers and the economy at large paves a path for better waste regime models reduced violence and environmental justice for workers and marginalized communities

**The Routledge International Handbook of Valuation and Society** Anne Krüger, Thorsten Peetz, Hilmar Schaefer, 2024-10-15 The Routledge International Handbook of Valuation and Society builds on the growing research interest in practices of valuation throughout contemporary society providing an up to date overview of the different facets of research in the sociology of valuation The handbook is divided into five major sections with attention to the treatment of valuation in major areas of sociological theory as well as its key concepts discourses and approaches Part I Theoretical perspectives Part II Central valuation practices in societal spheres Part III Cross cutting valuation practices Part IV Valuation and societal change Part V Reflections Together the chapters in this book characterize distinctive practices of valuation across different societal spheres such as education and science arts and culture economic life the environment or digital culture and social media They also examine the role of valuation in contemporary society and consider the ways it effects social change This seminal handbook aims at taking stock of the development of the study of valuation with a selection of topics that are important for understanding core perspectives and developments as well as anticipating its future orientation It will appeal to scholars across the social sciences with interest in the ubiquity of the valuation practices and its effects on social life

The Wireless World Simon James Potter, Friederike Kind-Kovacs, 2022 The Wireless World sheds new light on the transnational connections created by international broadcasting using a single analytical frame to draw together the periods from the pioneering days of wireless through WWII and the Cold War to the decades since the fall of the Berlin Wall to reveal key continuities and transformations

**Climatic Media** Yuriko Furuhashi, 2022-01-24 In Climatic Media



Yuriko Furuhashi traces climate engineering from the early twentieth century to the present emphasizing the legacies of Japan's empire building and its Cold War alliance with the United States Furuhashi boldly expands the scope of media studies to consider technologies that chemically condition Earth's atmosphere and socially condition the conduct of people focusing on the attempts to monitor and modify indoor and outdoor atmospheres by Japanese scientists technicians architects and artists in conjunction with their American counterparts She charts the geopolitical contexts of what she calls climatic media by examining a range of technologies such as cloud seeding and artificial snowflakes digital computing used for weather forecasting and weather control cybernetics for urban planning and policing Nakaya Fujiko's fog sculpture and the architectural experiments of Tange Lab and the Metabolists who sought to design climate controlled capsule housing and domed cities Furuhashi's transpacific analysis offers a novel take on the elemental conditions of media and climate change

Waste Siege Sophia Stamatopoulou-Robbins, 2019-12-10 Waste Siege offers an analysis unusual in the study of Palestine it depicts the environmental infrastructural and aesthetic context in which Palestinians are obliged to forge their lives To speak of waste siege is to describe a series of conditions from smelling wastes to negotiating military infrastructures from biopolitical forms of colonial rule to experiences of governmental abandonment from obvious targets of resistance to confusion over responsibility for the burdensome objects of daily life Within this rubble debris and infrastructural fallout West Bank Palestinians create a life under settler colonial rule Sophia Stamatopoulou Robbins focuses on waste as an experience of everyday life that is continuous with but not a result only of occupation Tracing Palestinians' own experiences of wastes over the past decade she considers how multiple authorities governing the West Bank including municipalities the Palestinian Authority international aid organizations NGOs and Israel rule by waste siege whether intentionally or not Her work challenges both common formulations of waste as matter out of place and as the ontological opposite of the environment by suggesting instead that waste siege be understood as an ecology of matter with no place to go Waste siege thus not only describes a stateless Palestine but also becomes a metaphor for our besieged planet **The Perversity of**

**Things** Hugo Gernsback, 2016-11-21 In 1905 a young Jewish immigrant from Luxembourg founded an electrical supply shop in New York This inventor writer and publisher Hugo Gernsback would later become famous for launching the first science fiction magazine Amazing Stories in 1926 But while science fiction's annual Hugo Awards were named in his honor there has been surprisingly little understanding of how the genre began among a community of tinkerers all drawn to Gernsback's vision of comprehending the future of media through making In The Perversity of Things Grant Wythoff makes available texts by Hugo Gernsback that were foundational both for science fiction and the emergence of media studies Wythoff argues that Gernsback developed a means of describing and assessing the cultural impact of emerging media long before media studies became an academic discipline From editorials and blueprints to media histories critical essays and short fiction Wythoff has collected a wide range of Gernsback's writings that have been out of print since their magazine debut in the early 1900s

These articles cover such topics as television the regulation of wireless radio war and technology speculative futures media archaeological curiosities like the dynamophone and hypnobioscope and more All together this collection shows how Gernsback s publications evolved from an electrical parts catalog to a full fledged literary genre The Perversity of Things aims to reverse the widespread misunderstanding of Gernsback within the history of science fiction criticism Through painstaking research and extensive annotations and commentary Wythoff reintroduces us to Gernsback and the origins of science fiction

**A New Vocabulary for Global Modernism** Eric Hayot, Rebecca L. Walkowitz, 2016-11-29 Bringing together leading critics and literary scholars A New Vocabulary for Global Modernism argues for new ways of understanding the nature and development of twentieth century literature and culture Scholars have largely understood modernism as an American and European phenomenon Those parameters have expanded in recent decades but the incorporation of multiple origins and influences has often been tied to older conceptual frameworks that make it difficult to think of modernism globally Providing alternative approaches A New Vocabulary for Global Modernism introduces pathways through global archives and new frameworks that offer a richer more representative set of concepts for the analysis of literary and cultural works In separate essays each inspired by a critical term this collection explores what happens to the foundational concepts of modernism and the methods we bring to modernist studies when we approach the field as a global phenomenon Their work transforms the intellectual paradigms we have long associated with modernism such as tradition antiquity style and translation New paradigms such as context slum copy pantomime and puppets emerge as the archive extends beyond its European center In bringing together and reexamining the familiar as well as the emergent the contributors to this volume offer an invaluable and original approach to studying the intersection of world literature and modernist studies

## Unveiling the Magic of Words: A Report on "**Digital Rubbish A Natural History Of Electronics Jennifer Gabrys**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Digital Rubbish A Natural History Of Electronics Jennifer Gabrys**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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