


Wiebe E. Bijker



Of Bicycles, Bakelites, and Bulbs
Toward a Theory of Sociotechnical Change

Of Bicycles Bakelites And Bulbs Toward A Theory Of Sociotechnical Change Inside Technology

Paul N. Edwards



Of Bicycles Bakelites And Bulbs Toward A Theory Of Sociotechnical Change Inside Technology:

Of Bicycles, Bakelites, and Bulbs Wiebe E. Bijker, 1997-01-03 This book crystallizes and extends the important work Wiebe Bijker has done in the last decade to found a full scale theory of sociotechnical change that describes where technologies come from and how societies deal with them Of Bicycles Bakelites and Bulbs integrates detailed case studies with theoretical generalizations and political analyses to offer a fully rounded treatment both of the relations between technology and society and of the issues involved in sociotechnical change The stories of the the safety bicycle the first truly synthetic plastic and the fluorescent light bulb each a fascinating case study in itself reflect a cross section of time periods engineering and scientific disciplines and economic social and political cultures The bicycle story explores such issues as the role of changing gender relationships in shaping a technology the Bakelite story examines the ways in which social factors intrude even in cases of seemingly pure chemistry and entrepreneurship and the fluorescent bulb story offers insights into the ways in which political and economic relationships can affect the form of a technology Bijker s method is to use these case studies to suggest theoretical concepts that serve as building blocks in a more and more inclusive theory which is then tested against further case studies His main concern is to create a basis for science technology and social change that uncovers the social roots of technology making it amenable to democratic politics

Water Societies and Technologies from the Past and Present Mark Altaweel, Yijie Zhuang, 2018-11-26 Today our societies face great challenges with water in terms of both quantity and quality but many of these challenges have already existed in the past Focusing on Asia Water Societies and Technologies from the Past and Present seeks to highlight the issues that emerge or re emerge across different societies and periods and asks what they can tell us about water sustainability Incorporating cutting edge research and pioneering field surveys on past and present water management practices the interdisciplinary contributors together identify how societies managed water resource challenges and utilised water in ways that allowed them to evolve persist or drastically alter their environment The case studies from different periods ancient and modern and from different regions including Egypt Sri Lanka Cambodia Southwest United States the Indus Basin the Yangtze River the Mesopotamian floodplain the early Islamic city of Sultan Kala in Turkmenistan and ancient Korea offer crucial empirical data to readers interested in comparing the dynamics of water management practices across time and space and to those who wish to understand water related issues through conceptual and quantitative models of water use The case studies also challenge classical theories on water management and social evolution examine and establish the deep historical roots and ecological foundations of water sustainability issues and contribute new grounds for innovations in sustainable urban planning and ecological resilience

Inside the Politics of Technology Hans Harbers, 2005 Though the old saying claims that man is the measure of all things the authors of *Inside the Politics of Technology* argue that the distinction implied between autonomous humans and neutral instruments of technology is an illusion On the contrary the technologies humans create simultaneously

shape humans themselves By means of case studies of technologies as diverse as video cameras electric cars pregnancy tests and genetic screenings this volume considers the implications of this co production of technology and society for our philosophical and political ideas Are only humans endowed with social political and moral agency or does our technology share those qualities And if so how should we understand or practice a politics of technology

Far-Fetched Facts Richard Rottenburg, 2009-04-17 A fictionalized ethnographic study of development aid in sub Saharan Africa that focuses on technologies of inscription in the interactions of development banks international experts and local managers In 1996 the sub Saharan African country of Ruritania launched a massive waterworks improvement project funded by the Normesian Development Bank headquartered in Urbania Normland and with the guidance of Shilling Partner a consulting firm in Mercatoria Normland Far Fetched Facts tells the story of this project as narrated by anthropologists Edward B Drotlevski and Samuel A Martonosi Their account of the Ruritanian waterworks project views the problems of development from a new perspective focusing on technologies of inscription in the interactions of development bank international experts and local managers This development project is fictionalized of course although based closely on author Richard Rottenburg s experiences working on and observing different development projects in the 1990s Rottenburg uses the case of the Ruritanian waterworks project to examine issues of standardization database building documentation calculation and territory mapping The techniques and technologies of the representational practices of documentation are crucial Rottenburg argues both to day to day management of the project and to the demonstration of the project s legitimacy Five decades of development aid or development cooperation as it is now sometimes known have yielded disappointing results Rottenburg looks in particular at the role of the development consultant often called upon to act as mediator between the other actors and at the interstitial spaces where developmental cooperation actually occurs He argues that both critics and practitioners of development often misconstrue the grounds of cooperation which he claims are moral legal and political rather than techno scientific or epistemological

An Engine, Not a Camera Donald MacKenzie, 2008-08-29 In An Engine Not a Camera Donald MacKenzie argues that the emergence of modern economic theories of finance affected financial markets in fundamental ways These new Nobel Prize winning theories based on elegant mathematical models of markets were not simply external analyses but intrinsic parts of economic processes Paraphrasing Milton Friedman MacKenzie says that economic models are an engine of inquiry rather than a camera to reproduce empirical facts More than that the emergence of an authoritative theory of financial markets altered those markets fundamentally For example in 1970 there was almost no trading in financial derivatives such as futures By June of 2004 derivatives contracts totaling 273 trillion were outstanding worldwide MacKenzie suggests that this growth could never have happened without the development of theories that gave derivatives legitimacy and explained their complexities MacKenzie examines the role played by finance theory in the two most serious crises to hit the world s financial markets in recent years the stock market crash of 1987 and the market turmoil

that engulfed the hedge fund Long Term Capital Management in 1998 He also looks at finance theory that is somewhat beyond the mainstream chaos theorist Benoit Mandelbrot's model of wild randomness MacKenzie's pioneering work in the social studies of finance will interest anyone who wants to understand how America's financial markets have grown into their current form

Digitizing the News Pablo J. Boczkowski, 2005 A study of the development of nonprint publishing by American daily newspapers how new media emerge by combining existing media structures and practices with new technical capabilities

Making Parents Charis Thompson, 2005 Reproductive technologies says Thompson are part of the increasing tendency to turn social problems into biomedical questions and can be used as a lens to see the resulting changes in the relations between science and society

BOOK JACKET *Pedagogy and the Practice of Science* David Kaiser, 2005 Studies examining the ways in which the training of engineers and scientists shapes their research strategies and scientific identities

The Oxford Handbook of Material Culture Studies Dan Hicks, Mary C. Beaudry, 2010-09-02 Written by an international team of experts the Handbook makes accessible a full range of theoretical and applied approaches to the study of material culture and the place of materiality in social theory presenting current thinking about material culture from the fields of archaeology anthropology geography and science and technology studies

Fighting Traffic Peter D. Norton, 2011-01-21 The fight for the future of the city street between pedestrians street railways and promoters of the automobile between 1915 and 1930 Before the advent of the automobile users of city streets were diverse and included children at play and pedestrians at large By 1930 most streets were primarily a motor thoroughfare where children did not belong and where pedestrians were condemned as jaywalkers In *Fighting Traffic* Peter Norton argues that to accommodate automobiles the American city required not only a physical change but also a social one before the city could be reconstructed for the sake of motorists its streets had to be socially reconstructed as places where motorists belonged It was not an evolution he writes but a bloody and sometimes violent revolution Norton describes how street users struggled to define and redefine what streets were for He examines developments in the crucial transitional years from the 1910s to the 1930s uncovering a broad anti automobile campaign that reviled motorists as road hogs or speed demons and cars as juggernauts or death cars He considers the perspectives of all users pedestrians police who had to become traffic cops street railways downtown businesses traffic engineers who often saw cars as the problem not the solution and automobile promoters He finds that pedestrians and parents campaigned in moral terms fighting for justice Cities and downtown businesses tried to regulate traffic in the name of efficiency Automotive interest groups meanwhile legitimized their claim to the streets by invoking freedom a rhetorical stance of particular power in the United States *Fighting Traffic* offers a new look at both the origins of the automotive city in America and how social groups shape technological change

Ham Radio's Technical Culture Kristen Haring, 2007 A history of ham radio culture how ham radio enthusiasts formed identity and community through their technical hobby from the 1930s through the Cold War

Constructing a Bridge Eda Kranakis, 1997 A historical look at styles of technological

research and design If it is true as Tocqueville suggested that social and class systems shape technology research and knowledge then the effects should be visible both at the individual level and at the level of technical institutions and local environments That is the central issue addressed in *Constructing a Bridge a tale of two cultures* that investigates how national traditions shape technological communities and their institutions and become embedded in everyday engineering practice Eda Kranakis first examines these issues in the work of two suspension bridge designers of the early nineteenth century the American inventor James Finley and the French engineer Claude Louis Marie Henri Navier Finley who was oriented toward the needs of rural frontier communities designed a bridge that could be easily reproduced and constructed by carpenters and blacksmiths Navier whose professional training and career reflected a tradition of monumental architecture and had linked him closely to the Parisian scientific community designed an elegant costly and technically sophisticated structure to be built in an elite district of Paris Charting the careers of these two technologists and tracing the stories of their bridges Kranakis reveals how local environments can shape design goals research practices and design to construction processes Kranakis then offers a broader look at the technological communities and institutions of nineteenth century France and America and at their ties to technological practice She shows how conditions that led to Finley s and Navier s distinct designs also fostered different systems of technical education as well as distinct ideologies and traditions of engineering research The result of this two tiered comparative approach is a reorientation of a historiographic tradition initiated by Tocqueville and explored more recently by Eugene Ferguson John Kasson and others toward a finer grained analysis of institutional and local environments as mediators between national traditions and individual styles of technological research and design

The Closed World Paul N. Edwards, 1996 *The Closed World* offers a radically new alternative to the canonical histories of computers and cognitive science Arguing that we can make sense of computers as tools only when we simultaneously grasp their roles as metaphors and political icons Paul Edwards shows how Cold War social and cultural contexts shaped emerging computer technology and were transformed in turn by information machines *The Closed World* explores three apparently disparate histories the history of American global power the history of computing machines and the history of subjectivity in science and culture through the lens of the American political imagination In the process it reveals intimate links between the military projects of the Cold War the evolution of digital computers and the origins of cybernetics cognitive psychology and artificial intelligence Edwards begins by describing the emergence of a closed world discourse of global surveillance and control through high technology military power The Cold War political goal of containment led to the SAGE continental air defense system Rand Corporation studies of nuclear strategy and the advanced technologies of the Vietnam War These and other centralized computerized military command and control projects for containing world scale conflicts helped closed world discourse dominate Cold War political decisions Their apotheosis was the Reagan era plan for a Star Wars space based ballistic missile defense Edwards then shows how

these military projects helped computers become axial metaphors in psychological theory Analyzing the Macy Conferences on cybernetics the Harvard Psycho Acoustic Laboratory and the early history of artificial intelligence he describes the formation of a cyborg discourse By constructing both human minds and artificial intelligences as information machines cyborg discourse assisted in integrating people into the hyper complex technological systems of the closed world Finally Edwards explores the cyborg as political identity in science fiction from the disembodied panoptic AI of 2001 A Space Odyssey to the mechanical robots of Star Wars and the engineered biological androids of Blade Runner where Information Age culture and subjectivity were both reflected and constructed Inside Technology series **Cultivating Science,**

Harvesting Power Christopher R. Henke, 2008-08-22 How agricultural scientists and growers in California have cooperated and struggled in shaping the state's multi billion dollar farm industry Just south of San Francisco lies California's Salinas Valley the heart of a multi billion dollar agricultural industry that dominates U S vegetable production How did the sleepy valley described in the stories of John Steinbeck become the nation's salad bowl In Cultivating Science Harvesting Power Christopher R Henke explores the ways that science helped build the Salinas Valley and California's broader farm industry Henke focuses on the case of University of California farm advisors scientists stationed in counties throughout the state who have stepped forward to help growers deal with crises ranging from labor shortages to plagues of insects These disruptions in what Henke terms industrial agriculture's ecology of power provide a window onto how agricultural scientists and growers have collaborated and struggled in shaping this industry Through these interventions Henke argues science has served as a mechanism of repair for industrial agriculture Basing his analysis on detailed ethnographic and historical research Henke examines the history of state sponsored farm advising in particular its roots in Progressive Era politics and looks at both past and present practices by farm advisors in the Salinas Valley He goes on to examine specific examples including the resolution of a farm labor crisis during World War II at the Spreckels Sugar Company the use of field trials for promoting new farming practices and farm advisors and growers responses to environmental issues Beyond this Henke argues that the concept of repair is broadly applicable to other cases and that expertise can be deployed more generally to encourage change for the future of American agriculture

Assetization Kean Birch, Fabian Muniesa, 2020-07-14 How the asset anything that can be controlled traded and capitalized as a revenue stream has become the primary basis of technoscientific capitalism In this book scholars from a range of disciplines argue that the asset meaning anything that can be controlled traded and capitalized as a revenue stream has become the primary basis of technoscientific capitalism An asset can be an object or an experience a sum of money or a life form a patent or a bodily function A process of assetization prevails imposing investment and return as the key rationale and overtaking commodification and its speculative logic Although assets can be bought and sold the point is to get a durable economic rent from them rather than make a killing on the market Assetization examines how assets are constructed and how a variety of things can be turned into assets analyzing the interests activities skills organizations and

relations entangled in this process The contributors consider the assetization of knowledge including patents personal data and biomedical innovation of infrastructure including railways and energy of nature including mineral deposits agricultural seeds and natural capital and of publics including such public goods as higher education and monetizable social ills Taken together the chapters show the usefulness of assetization as an analytical tool and as an element in the critique of capitalism Contributors Thomas Beauvisage Kean Birch Veit Braun Natalia Buiet B atrice Cointe Paul Robert Gilbert Hyo Yoon Kang Les Levidow Kevin Mellet Sveta Milyaeva Fabian Muniesa Alain Nada Daniel Neyland Victor Roy James W Williams

Rationalizing Medical Work Marc Berg,1997 Advocates argue that they will make medical practice more rational more uniform and more efficient and that they will transform the art of medical work into a science Critics argue that formal tools cannot and should not supplant humans in most real life tasks *Discourse, Identities and Roles in Specialized Communication* Giuliana Garzone,James Archibald,2010 The studies presented in this volume focus on two distinct but related areas of specialized communication professional and academic settings resting on an anti essentialist notion of identity as a phenomenon that emerges from the dialectic between individual and society The authors start from a detailed analysis of discourse practices as evidenced in texts their production and the professional performance patterns which underlie such practices and explore the way the actors roles and identities are constructed in language and discourse In particular by highlighting discursive attitudes and aptitudes they underscore the need to understand discourse in light of norms of professional responsibility showing that not only do professionals and academics use discourse to create self identity but they also use identity constructed through discourse to influence society *Ownership of Knowledge* Dagmar Schafer,Annapurna Mamidipudi,Marius Buning,2023-07-18 A framework for knowledge ownership that challenges the mechanisms of inequality in modern society Scholars of science technology medicine and law have all tended to emphasize knowledge as the sum of human understanding and its ownership as possession by law Breaking with traditional discourse on knowledge property as something that concerns mainly words and intellectual history or science and law Dagmar Sch fer Annapurna Mamidipudi and Marius Buning propose technology as a central heuristic for studying the many implications of knowledge ownership Toward this end they focus on the notions of knowledge and ownership in courtrooms workshops policy and research practices while also shedding light on scholarship itself as a powerful tool for making explicit the politics inherent in knowledge practices and social order The book presents case studies showing how diverse knowledge economies are created and how inequalities arise from them Unlike scholars who have fragmented this discourse across the disciplines of anthropology sociology and history the editors highlight recent developments in the emerging field of the global history of knowledge as science as economy and as culture The case studies reveal how notions of knowing and owning emerge because they reciprocally produce and determine each other s limits and possibilities that is how we know inevitably affects how we can own what we know and how we own always impacts how and what we are able to know Contributors Dagmar

Sch fer Annapurna Mamidipudi Cynthia Brokaw Marius Buning Viren Murthy Marjolijn Bol Amy E Slaton James Leach Myles W Jackson Lissant Bolton Vivek S Oak J rn Oeder *On Line and On Paper* Kathryn Henderson,1998-12-01 The role of representation in the production of technoscientific knowledge has become a subject of great interest in recent years In this book sociologist and art critic Kathryn Henderson offers a new perspective on this topic by exploring the impact of computer graphic systems on the visual culture of engineering design Henderson shows how designers use drawings both to organize work and knowledge and to recruit and organize resources political support and power Henderson s analysis of the collective nature of knowledge in technical design work is based on her participant observation of practices in two industrial settings In one she follows the evolution of a turbine engine package from design to production and in the other she examines the development of an innovative surgical tool In both cases she describes the messy realities of design practice including the mixed use of the worlds of paper and computer graphics One of the goals of the book is to lay a practice informed groundwork for the creation of more usable computer tools Henderson also explores the relationship between the historical development of engineering as a profession and the standardization of engineering knowledge and then addresses the question Just what is high technology and how does its affect the extent to which people will allow their working habits to be disrupted and restructured Finally to help explain why visual representations are so powerful Henderson develops the concept of metaindexicality the ability of a visual representation used interactively to combine many diverse levels of knowledge and thus to serve as a meeting ground and sometimes battleground for many types of workers

Organizational Dynamics of Technology-Based Innovation: Diversifying the Research Agenda Tom McMaster,David Wastell,Elaine Ferneley,Janice DeGross,2007-06-01 This volume presents papers from the 10th Working Conference of the IFIP WG 8 6 on the adoption and diffusion of information systems and technologies It explores the dynamics of how some technological innovation efforts succeed while others fail The book looks to expand the research agenda paying special attention to the areas of theoretical perspectives methodologies and organizational sectors

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