

THE ENGINEER IN AMERICA

A HISTORICAL ANTHOLOGY FROM *TECHNOLOGY AND CULTURE*



EDITED BY TERRY S. REYNOLDS

Engineer In America A Historical Anthology From Technology And Culture

Terry S. Reynolds



Engineer In America A Historical Anthology From Technology And Culture:

The Engineer in America Terry S. Reynolds, 1991 With some two million practitioners engineers form one of America's largest professional groups indeed it is the single largest occupation of American males today The rise of this profession and its place in American society provide the focus for this anthology Spanning two centuries and the various subdisciplines of the field these essays demonstrate the paradoxical role engineers have played in building although usually not controlling the infrastructure on which America's prosperity is based This collection of seventeen essays traces the rise of the engineering profession and its evolving contribution to the development of America's material and economic success Topics addressed include American engineering's birth from European traditions Impact of science on engineering practice Changing relationship between engineers and bureaucratic organizations Growth of engineering professional institutions Thoughtfully organized and unique in its scope this volume will be a welcome overview for both students and scholars of the history of technology These essays were originally published in the journal *Technology and Culture*

Engineer in America Terry S. Reynolds, 1991-01-01 Engineers form one of the largest professional groups in the United States today with around 2 million practitioners it is the single largest occupation of American males The rise of this occupational group and its place in American society furnish the focus for this anthology

Doing Engineering Joyce Tang, 1999 The first to systematically compare Caucasians African Americans and Asian Americans in engineering this study of the career attainment and mobility of engineers in the United States tells how these three groups fare in the American engineering labor market and what they can look forward to in the future The numbers of black and Asian engineers recently have grown at a much faster rate than the number of Caucasian engineers With a projected steady increase in engineering jobs and demographic shifts this trend should continue Yet recent writings on the engineering profession have said little about career mobility beyond graduation This book identifies and explores key issues determining whether minorities in the US will attain occupational equality with their Caucasian counterparts Highlighting implications for theory policy making and the future of the profession *Doing Engineering* offers important insights into labor race and ethnicity that will be of interest to anyone studying stratification in a wide range of professional occupations

From Insight to Innovation David P. Billington, Jr., 2020-11-17 The engineering ideas behind key twentieth century technical innovations from great dams and highways to the jet engine the transistor the microchip and the computer Technology is essential to modern life yet few of us are technology literate enough to know much about the engineering that underpins it In this book David P Billington Jr offers accessible accounts of the key twentieth century engineering innovations that brought us into the twenty first century Billington examines a series of engineering advances from Hoover Dam and jet engines to the transistor the microchip the computer and the internet and explains how they came about and how they work Each of these innovations tells a unique story The great dams of the New Deal brought huge rivers under control and a national highway system interconnected the nation as did jet air travel The

transistor and the microchip originated in the private sector and found a mass market after early government support The computer and the internet began as government projects and found a mass market later in the private sector Billington finds that engineers with unconventional insights could succeed in a bureaucratic age what mattered were independent vision and a society that welcomed innovation This book completes the story of American engineering begun with the earlier volumes The Innovators by the author's father and Power Speed and Form by the author and his father

Scientists, Business, and the State, 1890-1960 Patrick J. McGrath, 2003-01-14 In the late nineteenth century scientists began allying themselves with America's corporate political and military elites They did so not just to improve their professional standing and win more money for research says Patrick McGrath but for political reasons as well They wanted to use their new institutional connections to effect a transformation of American political culture They succeeded but not in ways that all scientists envisioned or agreed upon McGrath describes how between 1890 and 1960 scientific business and political leaders together forged a new definition of American democracy in which science and technology were presented to the public as crucial ingredients of the nation's progress prosperity and political stability But as scientists became more prominent they provoked conflicts among themselves as well as with their institutional patrons over exactly how their expertise should be used McGrath examines the bitter battles that erupted over the role scientists should play during the Great Depression World War II the Cold War arms race and the security and loyalty investigations of the 1950s He finds that by the end of the 1950s scientists were regarded by the political and military elite not as partners but as subordinate technicians who were expected to supply weapons on demand for the Cold War state Originally published 2001 A UNC Press Enduring Edition UNC Press Enduring Editions use the latest in digital technology to make available again books from our distinguished backlist that were previously out of print These editions are published unaltered from the original and are presented in affordable paperback formats bringing readers both historical and cultural value

Using the Engineering Literature Bonnie A. Osif, 2016-04-19 With the encroachment of the Internet into nearly all aspects of work and life it seems as though information is everywhere However there is information and then there is correct appropriate and timely information While we might love being able to turn to Wikipedia for encyclopedia like information or search Google for the thousands of links

Enabling American Innovation Dian Olson Belanger, 1998 Traces engineers' struggle to win intellectual financial and organizational recognition within the National Science Foundation This book analyzes the tools and arguments how they altered over time and how budgetary and philosophical debates were played out through organizational manipulation

What is Global Engineering Education For? Gary Lee Downey, Kacey Beddoes, 2010-11-01 Global engineering offers the seductive image of engineers figuring out how to optimize work through collaboration and mobility Its biggest challenge to engineers however is more fundamental and difficult to better understand what they know and value qua engineers and why This volume reports an experimental effort to help sixteen engineering educators produce personal geographies

describing what led them to make risky career commitments to international and global engineering education The contents of their diverse trajectories stand out in extending far beyond the narrower image of producing globally competent engineers Their personal geographies repeatedly highlight experiences of incongruence beyond home countries that provoked them to see themselves and understand their knowledge differently The experiences were sufficiently profound to motivate them to design educational experiences that could provoke engineering students in similar ways For nine engineers gaining new international knowledge challenged assumptions that engineering work and life are limited to purely technical practices compelling explicit attention to broader value commitments For five non engineers and two hybrids gaining new international knowledge fueled ambitions to help engineering students better recognize and critically examine the broader value commitments in their work A background chapter examines the historical emergence of international engineering education in the United States and an epilogue explores what it might take to integrate practices of critical self analysis more systematically in the education and training of engineers Two appendices and two online supplements describe the unique research process that generated these personal geographies especially the workshop at the U S National Academy of Engineering in which authors were prohibited from participating in discussions of their manuscripts

Engineering

Manhood Jonson Miller, 2020-10-01 It is not an accident that American engineering is so disproportionately male and white it took and takes work to create and sustain this situation Engineering Manhood Race and the Antebellum Virginia Military Institute examines the process by which engineers of the antebellum Virginia Military Institute cultivated whiteness manhood and other intersecting identities as essential to an engineering professional identity VMI opened in 1839 to provide one of the earliest and most thorough engineering educations available in antebellum America The officers of the school saw engineering work as intimately linked to being a particular type of person one that excluded women or black men This particular white manhood they crafted drew upon a growing middle class culture These precedents impacted engineering education broadly in this country and we continue to see their legacy today

Railroads in the Old South Aaron W. Marrs, 2022-02-03 An original history of the railroad in the Old South that challenges the accepted understanding of economic and industrial growth in antebellum America Drawing from both familiar and overlooked sources such as the personal diaries of Southern travelers papers and letters from civil engineers corporate records and contemporary newspaper accounts Aaron W Marrs skillfully expands on the conventional business histories that have characterized scholarship in this field He situates railroads in the fullness of antebellum life examining how slavery technology labor social convention and the environment shaped their evolution Far from seeing the Old South as backward and premodern Marrs finds evidence of urban life industry and entrepreneurship throughout the region But these signs of progress existed alongside efforts to preserve traditional ways of life Railroads exemplified Southerners pursuit of progress on their own terms developing modern transportation while retaining a conservative social order Railroads in the Old South demonstrates

that a simple approach to the Old South fails to do justice to its complexity and contradictions The time is right to bring the South into the story of the economic transformation of antebellum America Aaron Marrs does this with force and grace in *Railroads in the Old South* John L Larson Purdue University I am hard pressed to think of another volume that better catches the overall effect railroads had on the Old South Kenneth W Noe Auburn University Interesting regional history It is a thoughtful and instructive study that examines not only the pervasiveness of transportation but also some of the social political and economic consequences associated with the evolution of southern railroads Choice

[A Companion to American Technology](#) Carroll Pursell, 2008-04-30 A Companion to American Technology is a groundbreaking collection of original essays that analyze the hard to define phenomenon of technology in America 22 original essays by expert scholars cover the most important features of American technology including developments in automobiles television and computing Analyzes the ways in which technologies are organized such as in the engineering profession government medicine and agriculture Includes discussions of how technologies interact with race gender class and other organizing structures in American society

[The 1933 Chicago World's Fair](#) Cheryl Ganz, 2012-01-06 From fan dancers to fan belts the compelling untold stories of Chicago's 1933 world fair

[Engineering Ethics](#) Deborah G. Johnson, 2020-05-19 An engaging accessible survey of the ethical issues faced by engineers designed for students The first engineering ethics textbook to use debates as the framework for presenting engineering ethics topics this engaging accessible survey explores the most difficult and controversial issues that engineers face in daily practice Written by a leading scholar in the field of engineering and computer ethics Deborah Johnson approaches engineering ethics with three premises that engineering is both a technical and a social endeavor that engineers don't just build things they build society and that engineering is an inherently ethical enterprise

[Critical Issues in the History of Spaceflight](#) Stephen J. Dick, Steven J. Dick, Roger D. Launius, 2006 In March 2005 the NASA History Division and the Division of Space History at the National Air and Space Museum brought together a distinguished group of scholars to consider the state of the discipline of space history This volume is a collection of essays based on those deliberations The meeting took place at a time of extraordinary transformation for NASA stemming from the new Vision of Space Exploration announced by President George W Bush in January 2004 to go to the Moon Mars and beyond This Vision in turn stemmed from a deep reevaluation of NASA's goals in the wake of the Space Shuttle Columbia accident and the recommendations of the Columbia Accident Investigation Board The new goals were seen as initiating a New Age of Exploration and were placed in the context of the importance of exploration and discovery to the American experiences

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[Engineering and War](#) Ethan Blue, Michael Levine, Dean Nieusma, 2022-06-01 This book investigates the close connections between engineering and war broadly understood and the conceptual and structural barriers that face those who would seek to loosen those connections It shows how military institutions and interests have long influenced engineering education research and practice and how they

continue to shape the field in the present The book also provides a generalized framework for responding to these influences useful to students and scholars of engineering as well as reflective practitioners The analysis draws on philosophy history critical theory and technology studies to understand the connections between engineering and war and how they shape our very understandings of what engineering is and what it might be After providing a review of diverse dimensions of engineering itself the analysis shifts to different dimensions of the connections between engineering and war First it considers the ethics of war generally and then explores questions of integrity for engineering practitioners facing career decisions relating to war Next it considers the historical rise of the military industrial academic complex especially from World War II to the present Finally it considers a range of responses to the militarization of engineering from those who seek to unsettle the status quo Only by confronting the ethical historical and political consequences of engineering for warfare this book argues can engineering be sensibly reimagined

An Engineer's Alphabet Henry Petroski, 2011-10-10 Written by America's most famous engineering storyteller and educator this abecedarium is one engineer's selection of thoughts quotations anecdotes facts trivia and arcana relating to the practice history culture and traditions of his profession The entries reflect decades of reading writing talking and thinking about engineers and engineering and range from brief essays to lists of great engineering achievements This work is organized alphabetically and more like a dictionary than an encyclopedia It is not intended to be read from first page to last but rather to be dipped into here and there as the mood strikes the reader In time it is hoped this book should become the source to which readers go first when they encounter a vague or obscure reference to the softer side of engineering

War Upon the Land Lisa M. Brady, 2012-04-01 In this first book length environmental history of the American Civil War Lisa M Brady argues that ideas about nature and the environment were central to the development and success of Union military strategy From the start of the war both sides had to contend with forces of nature even as they battled one another Northern soldiers encountered unfamiliar landscapes in the South that suggested to them an uncivilized society's failure to control nature Under the leadership of Ulysses S Grant William Tecumseh Sherman and Philip Sheridan the Union army increasingly targeted southern environments as the war dragged on Whether digging canals shooting livestock or dramatically attempting to divert the Mississippi River the Union aimed to assert mastery over nature by attacking the most potent aspect of southern identity and power agriculture Brady focuses on the siege of Vicksburg the 1864 Shenandoah Valley campaign marches through Georgia and the Carolinas and events along the Mississippi River to examine this strategy and its devastating physical and psychological impact Before the war many Americans believed in the idea that nature must be conquered and subdued Brady shows how this perception changed during the war leading to a wider acceptance of wilderness Connecting environmental trauma with the onset of American preservation Brady pays particular attention to how these new ideas of wilderness can be seen in the creation of national battlefield memorial parks as unaltered spaces Deftly combining environmental and military history with cultural

studies War upon the Land elucidates an intriguing largely unexplored side of the nation's greatest conflict **British
Engineers and Africa, 1875-1914** Casper Andersen, 2015-10-06 Using a wide range of primary sources that include
correspondence diaries technical reports institutional minutes and periodicals Andersen reconstructs the networks and
activities of Britain's engineers while focusing on London as a centre of imperial expansion **Invisible New York** Stanley
Greenberg, 1998-11-04 Publisher Description

Reviewing **Engineer In America A Historical Anthology From Technology And Culture**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Engineer In America A Historical Anthology From Technology And Culture**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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