

# American And British Technology In The Nineteenth Century The Search For Labour Saving Inventions

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The Regional Economics of Technological Transformations Roberta Capello 2021-08-31 The Regional Economics of Technological Transformations provides a comprehensive overview of 4.0 technological transformations in Europe and their socio-economic impact, with a particular emphasis on the regional dimension of the phenomena. The authors employ extensive original data and robust quantitative methods to analyse technological change in all regions of the 27 EU countries plus the UK and shed light on this trend for Europe and beyond. Structured in four parts, the book first looks at conceptual definitions, empirical measurements and expected impacts on both the economic performance (GDP and productivity growth) and the labour market, and then moves on to analyse where 4.0 technological transformation actually takes place in Europe and the reasons for this. Next, it offers original empirical evidence on the impacts of the different transformations, and of their intertwined effects, on both the economy and the society. Finally, the book explores the policy implications of this technological transformation. This book will be valuable reading for advanced students, researchers and policymakers working across regional economics, industrial economics and innovation policy. It will be of primary interest to regional scientists interested in the field, who may enjoy the conceptual and empirical solutions to the study of a very complex, timely and still largely unexplored theme. Sociologists, engineers and political economists can benefit from the book 's analysis, noting the urgency of the development of new ethical rules governing the new digital and labour markets. Finally, the book may appeal to policymakers interested in opportunities to increase regional competitiveness and sustainability goals through the advent of 4.0 technologies.

Business Organization and the Myth of the Market Economy William Lazonick 1993-05-28 Explains the transitions in twentieth-century industrial leadership in terms of changing business investment strategies and organizational structures.

Female Labour Power Janet Greenlees 2007-01-01 The cotton industry was the first large-scale factory system to emerge during the industrial revolution, and as such there were no set business practices for employers or employees to follow in the organisation of the shop floor. In this book, Janet Greenlees argues that this situation provided workers in both Britain and the United States with a unique opportunity to influence decisions about work patterns and conditions of labour, and to set the precedent for industries that were to follow. Furthermore, data relating to the mass employment of women in the cotton industries, is used to challenge many of the tacit assumptions of women's passivity as workers that pervade the current literature.

The Technology Trap Carl Benedikt Frey 2020-09-22 From the Industrial Revolution to the age of artificial intelligence, Carl Benedikt Frey offers a sweeping account of the history of technological progress and how it has radically shifted the distribution of economic and political power among society's members. As the author shows, the Industrial Revolution created unprecedented wealth and prosperity over the long run, but the immediate consequences of mechanization were devastating for large swaths of the population. These trends broadly mirror those in our current age of automation. But, just as the Industrial Revolution eventually brought about extraordinary benefits for society, artificial intelligence systems have the potential to do the same. Benedikt Frey demonstrates that in the midst of another technological revolution, the lessons of the past can help us to more effectively face the present. --From publisher description.

Battle Cry of Freedom James M. McPherson 2003-12-11 Filled with fresh interpretations and information, puncturing old myths and challenging new ones, Battle Cry of Freedom will unquestionably become the standard one-volume history of the Civil War. James McPherson's fast-paced narrative fully integrates the political, social, and military events that crowded the two decades from the outbreak of one war in Mexico to the ending of another at Appomattox. Packed with drama and analytical insight, the book vividly recounts the momentous episodes that preceded the Civil War--the Dred Scott decision, the Lincoln-Douglas debates, John Brown's raid on Harper's Ferry--and then moves into a masterful chronicle of the war itself--the battles, the strategic maneuvering on both sides, the politics, and the personalities. Particularly notable are McPherson's new views on such matters as the slavery expansion issue in the 1850s, the origins of the Republican Party, the causes of secession, internal dissent and anti-war opposition in the North and the South, and the reasons for the Union's victory. The book's title refers to the sentiments that informed both the Northern and Southern views of the conflict: the South seceded in the name of that freedom of self-determination and self-government for which their fathers had fought in 1776, while the North stood fast in defense of the Union founded by those fathers as the bulwark of American liberty. Eventually, the North had to grapple with the underlying cause of the war--slavery--and adopt a policy of emancipation as a second war aim. This "new birth of freedom," as Lincoln called it, constitutes the proudest legacy of America's bloodiest conflict. This authoritative volume makes sense of that vast and confusing "second American Revolution" we call the Civil War, a war that transformed a nation and expanded our heritage of liberty.

The Meaning of Technology. Selected Readings from American Sources Montserrat Ginés Gibert 2010-09 The significance of "technology" has been subject of continuous discussion. This selection of readings, ranging from primary sources to scholarly and critical works and literary renderings, is intended to furnish elements for that discussion. The history of the United States began with the advent of the industrial revolution, which, in turn, became an integral part of American national and cultural identity. Accordingly, that country provides an appropriate setting in which to examine the debate on technology. The reader is asked to relate the selected views herein included to his or her own notion of technology and progress as they both relate to the also controversial terms of culture, ideology, nature and gender

The Age of Edison Ernest Freeberg 2013-02-21 A sweeping history of the electric light revolution and the birth of modern America The late nineteenth century was a period of explosive technological creativity, but more than any other invention, Thomas Edison 's incandescent light bulb marked the arrival of modernity, transforming its inventor into a mythic figure and avatar of an era. In The Age of Edison, award-winning author and historian Ernest Freeberg weaves a narrative that reaches from Coney Island and Broadway to the tiniest towns of rural America,

tracing the progress of electric light through the reactions of everyone who saw it and capturing the wonder Edison's invention inspired. It is a quintessentially American story of ingenuity, ambition, and possibility in which the greater forces of progress and change are made by one of our most humble and ubiquitous objects.

Essays on a Mature Economy Deirdre McCloskey 2005-11-03 First Published in 2005. Routledge is an imprint of Taylor & Francis, an informa company.

The Electric Vehicle Gijs Mom 2013-02-15 One hopes, as a new generation of electric vehicles becomes a reality, The Electric Vehicle offers a long-overdue reassessment of the place of this technology in the history of street transportation.

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.

Trade Secrets Doron S. Ben-Atar 2008-10-01 During the first decades of America's existence as a nation, private citizens, voluntary associations, and government officials encouraged the smuggling of European inventions and artisans to the New World. At the same time, the young republic was developing policies that set new standards for protecting industrial innovations. This book traces the evolution of America's contradictory approach to intellectual property rights from the colonial period to the age of Jackson. During the seventeenth and early eighteenth centuries Britain shared technological innovations selectively with its American colonies. It became less willing to do so once America's fledgling industries grew more competitive. After the Revolution, the leaders of the republic supported the piracy of European technology in order to promote the economic strength and political independence of the new nation. By the middle of the nineteenth century, the United States became a leader among industrializing nations and a major exporter of technology. It erased from national memory its years of piracy and became the world's foremost advocate of international laws regulating intellectual property.

Britain to America William E. Van Vugt 1999 From 1820 to 1860, the United States and Great Britain were the two most closely interconnected countries in the world in terms of culture and economic growth. In an important addition to immigration history, William Van Vugt explores who came to America from Great Britain during this period and why. Disruptions and economic hardships, such as the repeal of Britain's protective Corn Laws, the potato famine, and technological displacement, do not account for the great mid-century surge of British migration to America. Rather than desperation and impoverishment, Van Vugt finds that immigrants were motivated by energy, tenacity, and ambition to improve their lives by taking advantage of opportunities in America. Drawing on county histories, passenger lists of immigrant ships, census data, and manuscript collections in Great Britain and the United States, Van Vugt sketches the lives and fortunes of dozens of immigrant farmers, miners, artisans, skilled and unskilled laborers, professionals, and religious nonconformists.

Technology, Innovation, and Southern Industrialization Susanna Delfino 2008 Because of its strong agrarian roots, the South has typically been viewed as a region not favorably disposed to innovation and technology. Yet innovation was never absent from industrialization in this part of the United States. From the early nineteenth century onward, southerners were as eager as other Americans to embrace technology as a path to modernity. This volume features seven essays that range widely across the region and its history, from the antebellum era to the present, to assess the role of innovations presumed lacking by most historians. Offering a challenging interpretation of industrialization in the South, these writings show that the benefits of innovations had to be carefully weighed against the costs to both industry and society. The essays consider a wide range of innovative technologies. Some examine specific industries in subregions: steamboats in the lower Mississippi valley, textile manufacturing in Georgia and Arkansas, coal mining in Virginia, and sugar planting and processing in Louisiana. Others consider the role of technology in South Carolina textile mills around the turn of the twentieth century, the electrification of the Tennessee valley, and telemedicine in contemporary Arizona--marking the expansion of the region into the southwestern Sunbelt. Together, these articles show that southerners set significant limitations on what technological innovations they were willing to adopt, particularly in a milieu where slaveholding agriculture had shaped the allocation of resources. They also reveal how scarcity of capital and continued reliance on agriculture influenced that allocation into the twentieth century, relieved eventually by federal spending during the Depression and its aftermath that sparked the Sunbelt South's economic boom. Technology, Innovation, and Southern Industrialization clearly demonstrates that the South's embrace of technological innovation in the modern era doesn't mark a radical change from the past but rather signals that such pursuits were always part of the region's economy. It deflates the myth of southern agrarianism while expanding the scope of antebellum American industrialization beyond the Northeast and offers new insights into the relationship of southern economic history to the region's society and politics.

American Economic Growth and Standards of Living before the Civil War Robert E. Gallman 2007-12-01 This benchmark volume addresses the debate over the effects of early industrialization on standards of living during the decades before the Civil War. Its contributors demonstrate that the aggregate antebellum economy was growing faster than any other large economy had grown before. Despite the dramatic economic growth and rise in income levels, questions remain as to the general quality of life during this era. Was the improvement in income widely shared? How did economic growth affect the nature of work? Did higher levels of income lead to improved health and longevity? The authors address these questions by analyzing new estimates of labor force participation, real wages, and productivity, as well as of the distribution of income, height, and nutrition.

From the American System to Mass Production, 1800-1932 David Hounshell 1984 David A. Hounshell's widely acclaimed history explores the American "genius for mass production" and traces its origins in the nineteenth-century "American system" of manufacture. Previous writers on the American system have argued that the technical problems of mass production had been solved by armsmakers before the Civil War. Drawing upon the extensive business and manufacturing records of leading American firms, Hounshell demonstrates that the diffusion of arms production technology was neither as fast nor as smooth as had been assumed. Exploring the manufacture of sewing machines and furniture, bicycles and reapers, he shows that both the expression "mass production" and the technology that lay behind it were developments of the twentieth century, attributable in large part to the Ford Motor Company. Hounshell examines the importance of individuals in the diffusion and development of production technology and the central place of marketing strategy in the success of selected American manufacturers. Whereas Ford was the seedbed of the assembly line revolution, it was General Motors that initiated a new era with its introduction of the annual model change. With the new marketing strategy, the technology of "the changeover" became of paramount importance. Hounshell chronicles how painfully Ford learned this lesson and recounts how the successful mass production of automobiles led to the establishment of an "ethos of mass production," to an era in which proponents of "Fordism" argued that mass production would solve all of America's social problems.

Late Nineteenth-Century American Development Jeffrey G. Williamson 2008-10-30 An economist's attempt to interpret a critical period of US history, from Civil War to World War I.

A Companion to Economic Geography Eric Sheppard 2008-04-15 A Companion to Economic Geography presents students of human geography with an essential collection of original essays providing a key to understanding this important subdiscipline. The contributions are

written by prominent international scholars offering a wide-ranging overview of the field. Places economic geography in the wider context of geography. Contributions from leading international scholars in the field. Presents a comprehensive, up-to-date and accessible overview of all the major themes in the field. Explores key debates, controversies and questions using a variety of historical and theoretical vantage points. Charts the important work that has been done in recent years and looks forward to new developments in the global economy.

**The Industrial Revolution in World History** Peter N Stearns 2012-08-07 The industrial revolution was the single most important development in human history over the past three centuries, and it continues to shape the contemporary world. With new methods and organizations for producing goods, industrialization altered where people live, how they play, and even how they define political issues. By exploring the ways the industrial revolution reshaped world history, this book offers a unique look into the international factors that started the industrial revolution and its global spread and impact. In the fourth edition, noted historian Peter N. Stearns continues his global analysis of the industrial revolution with new discussions of industrialization outside of the West, including the study of India, the Middle East, and China. In addition, an expanded conclusion contains an examination of the changing contexts of industrialization. *The Industrial Revolution in World History* is essential for students of world history and economics, as well as for those seeking to know more about the global implications of what is arguably the defining socioeconomic event of modern times.

**Work and Pay in 20th Century Britain** Nicholas Crafts 2007-01-11 Written by leading British historians and economists, this volume looks at how fundamental changes in British labour markets throughout the 20th century transformed the lives of the British people.

**The Evolution of Technology** George Basalla 1989-02-24 This book presents an evolutionary theory of technological change based upon recent scholarship in the history of technology and upon relevant material drawn from economic history and anthropology. It challenges the popular notion that technology advances by the efforts of a few heroic individuals who produce a series of revolutionary inventions owing little or nothing to the technological past. Therefore, the book's argument is shaped by analogies taken selectively from the theory of organic evolution, and not from the theory and practice of political revolution. Three themes appear, and reappear with variations, throughout the study. The first is diversity: an acknowledgment of the vast numbers of different kinds of made things (artifacts) that have long been available to humanity; the second is necessity: the belief that humans are driven to invent new artifacts in order to meet basic biological requirements such as food, shelter, and defense; and the third is technological evolution: an organic analogy that explains both the emergence of novel artifacts and their subsequent selection by society for incorporation into its material life without invoking either biological necessity or technological progress. Although the book is not intended to provide a strict chronological account of the development of technology, historical examples - including many of the major achievements of Western technology: the waterwheel, the printing press, the steam engine, automobiles and trucks, and the transistor - are used extensively to support its theoretical framework. *The Evolution of Technology* will be of interest to all readers seeking to learn how and why technology changes, including both students and specialists in the history of technology and science.

**International Economic History: Industrialisation in the World Economy 1830-1950** J. E. Lander 1967

**Economy and Society in 19th Century Britain** Richard Tames 2013-11-05 First Published in 2005. Routledge is an imprint of Taylor & Francis, an informa company.

**The Science of Economic Development and Growth: The Theory of Factor Proportions** C.C. Onyemelukwe 2016-07-08 A theoretical framework aiming to facilitate study of development economics. The author presents his theory in three sections: how advanced nations developed; a proposed third dimension, in addition to labour and capital; and why capital accumulation is unnecessary, even potentially harmful.

**Country Competitiveness** Bruce Kogut 1993-08-05 With the expansion of global competition through international trade agreements and heightened rivalry between firms in the domestic market, it is easy to understand why a firm would seek to compete by lowering the wages paid to labor. Yet, this strategy is troubled not only by the efforts of other firms pursuing cheaper labor costs, but also by the failure to adopt better ways of organizing work. New products are copied within a short time after introduction. What is difficult to imitate is the organizing of work--as applied to the factory floor, to the corporation, and to relations among firms and other institutions. This book explores detailed case studies of individual firms, country comparisons, and historical patterns of diffusion. The authors emphasize that the speed by which a firm adopts and integrates new technologies and ways of organizing must be understood in the context of the strength of the regional and national network of firms and institutions. The chapters in the book are written by world-renowned scholars--including Giovanni Dosi, Horst Kern, Michael Schumann, and Eleanor D. Westner--and represent major schools of thought from Germany, France, the U.S., Japan, and the United Kingdom. The studies are international in nature and include in-depth analyses of software systems, automobile manufacturing (e.g. the Toyota Production System), and the machine tool industry.

**An Economic History of Europe** Karl Gunnar Persson 2015-03-12 The second edition of a leading textbook on European economic history, updated throughout and with new coverage of post-financial crisis Europe.

**Learning by Doing in Markets, Firms, and Countries** Naomi R. Lamoreaux 1999-02-15 Drawing out the underlying economics in business history, this text focuses on learning processes and the development of competitively valuable asymmetries. It shows that organizations learn that this process can be organized effectively, which can have major implications for how competition works.

**Operations Management** Michael Lewis 2003 Describes the key concepts of operations management, covering such topics as planning and control, the role of technology, and "just-in-time" techniques.

**Technology on the Frontier** Dianne Newell 2011-11-01 This book tells about a frontier region in economic transition. Its focus is the successful adoption of new technology to the particular economic and engineering circumstances associated with the newness or frontier nature of Ontario mining to 1890.

**Enterprise** Stuart Bruchey 1990 Looks at the history of American capitalism, and discusses the relationship between economic growth and values, law, social change, and politics

**Engineering in American Society** Raymond H. Merritt 2014-07-15 Technology, which has significantly changed Western man's way of life over the past century, exerted a powerful influence on American society during the third quarter of the nineteenth century. In this study Raymond H. Merritt focuses on the engineering profession, in order to describe not only the vital role that engineers played in producing a technological society but also to note the changes they helped to bring about in American education, industry, professional status, world perspectives, urban existence, and cultural values. During the development period of 1850-1875, engineers erected bridges, blasted tunnels, designed machines, improved rivers and harbors, developed utilities necessary for urban life, and helped to bind the continent together through new systems of transportation and communication. As a concomitant to this technological development, states Merritt, they introduced a new set of cultural values that were at once urban and cosmopolitan. These cultural values tended to reflect the engineers' experience of mobility -- so much a part of their lives -- and their commitment to efficiency, standardization, improved living conditions, and a less burdensome life. Merritt concludes from his study that the rapid growth of the engineering profession was aided greatly by the introduction of new teaching methods

which emphasized and encouraged the solution of immediate problems. Schools devoted exclusively to the education and training of engineers flourished -- schools such as Rensselaer Polytechnic Institute and Stevens Institute of Technology. Moreover, business corporations and governments sought the services of the engineers to meet the new technological demands of the day. In response, they devised methods and materials that went beyond traditional techniques. Their specialized experiences in planning, constructing, and supervising the early operation of these facilities brought them into positions of authority in the new business concerns, since they often were the only qualified men available for the executive positions of authority for the executive positions of America's earliest large corporations. These positions of authority further extended their influence in American society. Engineers took a positive view of administration, developed systems of cost accounting, worked out job descriptions, defined levels of responsibility, and played a major role in industrial consolidation. Despite their close association with secular materialism, Merritt notes that many engineers expressed the hope that human peace and happiness would result from technical innovation and that they themselves could devote their technological knowledge, executive experience, and newly acquired status to solve some of the critical problems of communal life. Having begun merely as had become the planners and, in many cases, municipal enterprises which they hoped would turn a land of farms and cities into a "social eden."

Economics of Industrial Innovation Chris Freeman 2013-10-28 First Published in 2000. Routledge is an imprint of Taylor & Francis, an informa company.

Britain and America Since Independence Howard R Temperley 2017-03-14 When the War of Independence ended in 1783, many doubted the ability of Americans to build a nation. Today the United States occupies a position comparable to that of Britain at the zenith of its power. Britain and America since Independence deals with Anglo-American relations in the widest sense. It shows how the transfer of hegemony from the British Empire to the United States affected the way Britons and Americans viewed one another, and its effect on the evolving social, economic and political connections between the two countries. In spite of political separation, geographical distance, and intermittent periods of hostility, the British have never regarded Americans as 'foreigners'. Americans, in turn, have looked to Britain as the source of their language and culture. Nevertheless, as Howard Temperley shows in this far-ranging study of the two societies, these affinities have often given rise to misunderstanding and confusion - as in the current conflict between Britain's allegiance to the 'special relationship', and America's belief that the future of Britain lies in Europe.

History of Technology Volume 8 Norman Smith 2016-09-30 The technical problems confronting different societies and periods, and the measures taken to solve them form the concern of this annual collection of essays. Volumes contain technical articles ranging widely in subject, time and region, as well as general papers on the history of technology. In addition to dealing with the history of technical discovery and change, History of Technology also explores the relations of technology to other aspects of life -- social, cultural and economic -- and shows how technological development has shaped, and been shaped by, the society in which it occurred.

Bourgeois Dignity Deirdre N. McCloskey 2011-11-15 In a book that looks at the birth of the industrial revolution and the rise of capitalism in the 17th and 18th centuries, the author argues that economic change--including change today--depends less on foreign trade, investment or material causes and more on ideas and what people believe. By the author of *The Bourgeois Virtues*.

Inventing the 19th Century Stephen van Dulken 2006-11 Dishwashers, electric light bulbs, gramophones, motion picture cameras, radios, roller skates, typewriters. While these inventions seem to speak of the 20th century, they all in fact date from the 19th century. The Victorian age (1837-1901) was a period of enormous technological progress in communications, transport, and many other areas of life. Illustrated by the original patent drawings from The British Library's extensive collection, this attractive book chronicles the history of the one hundred most important, innovative, and memorable inventions of the 19th century. The vivid picture of the Victorian age unfolds as inventions from the ground-breaking—such as aspirin, dynamite, and the telephone—to the everyday—like blue jeans and tiddlywinks—are revealed decade by decade. Together they provide a vivid picture of Victorian life. This follow-up volume to Stephen van Dulken's acclaimed *Inventing the 20th Century* will be compelling reading to anyone interested in inventors and the "age of machines." From the cash register to the safety pin, from the machine gun to the pocket protector, and from lawn tennis to the light bulb, *Inventing the 19th Century* is a fascinating, illustrative window into the Victorian Age.

Sheffield Steel and America Geoffrey Tweedale 1987-04-23 The book provides an important contribution to the technological and commercial history of crucible and electric steelmaking by thoroughly examining its development in Sheffield and American centres such as Pittsburgh. It also discusses cutlery, saw and file manufacturing, where the Americans quickly shed Sheffield's traditional technologies and, with the help of superior marketing, established a word lead by 1900. It is also shown, however, that this did not free the US from its dependence on Sheffield steel. Sheffield's innovation in special steelmaking, which began with the Hunstman crucible process in 1742, continued with a series of brilliant 'firsts', which gave the world tool, manganese, silicon, vanadium and stainless steel alloys. Thus the US continued to draw from Sheffield know-how, even in the twentieth century - a transfer of technology that was facilitated by the foundation of Sheffield's own subsidiary firms in America, the history of which is recounted here.

The Impact of the American Revolution Abroad Library of Congress 2002 "God grant that not only the love of liberty, but a thorough knowledge of the rights of man, may prevail in all the nations of the earth, so that a philosopher may set his foot anywhere on its surface and say, This is my country." With this quotation from Benjamin Franklin, historian Richard Morris, Columbia University, opened the fourth Library of Congress Symposium on the American Revolution, held May 8 and 9, 1975, in the Library's Coolidge Auditorium. For Americans, the Revolution brought independence, nationhood, a constitution clearly defining the relations of the state to the people, and reforms in social and economic equality. But what did it mean to the rest of the late 18th century world? Some answers to this question are found in the papers published in this volume. Following a comprehensive survey of the impact of the American Revolution abroad, by R. R. Palmer of Yale University, leading historians consider its effect on specific countries. France is discussed by Charles Fohlen of the University of Paris-Sorbonne; the Dutch Republic by J. W. Schulte Nordholt of the State University of Leiden; Great Britain by J. H. Plumb of Christ's College, Cambridge; the Russian Empire by N. N. Bolkhoitnov of the Institute of General History, Academy of Sciences of the USSR; the Spanish- and Portuguese-speaking world by Mario Rodríguez of the University of Southern California; and Ireland by Owen Dudley Edwards of the University of Edinburgh. Concluding the volume are commentaries on the American Revolution in relation to Germany, Japan, and Spain by Erich Angermann of the University of Cologne, Nagayo Homina of the University of Tokyo, and Ignacio Rubio Mañe, Archivist of Mexico.

Productivity and Performance in the Paper Industry Gary Bryan Magee 1997-03-27 A significant contribution to modern economic history examines an important, but little studied, industry.

[United States International Economic Policy in an Interdependent World](#) United States. Commission on International Trade and Investment Policy 1971

Building the Nineteenth Century Tom Frank Peters 1996 The Sayn Foundry in Bendorf, a German town on the Rhine near the Dutch border, is a fascinating example of complex technological thinking. Although the structural detailing is typical of its period (1830), Prussian engineer and iron founder Karl Ludwig Althaus used and varied the many architectural and engineering models at hand in a sophisticated and complex

building with structural elements that can be read as advertisements, machine parts, religious forms, or simply as building elements. The foundry, which is still standing, is just one of the many projects Peters examines in this broad synthesis of nineteenth-century technological thought and methods of design that form the basis of the modern built world. Through such examples, he traces the growth of technological thinking as one of our culture's chief modes of thought and establishes its primacy over other forms such as scientific or humanistic thinking as the major component of building design.

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