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Searching for a "rational" workplace, turn-of-the-century engineers and industrial architects recast the factory itself in the image of the machine. Indeed, they considered the factory building the "master machine," containing and coordinating all of the machinery within.

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This interdisciplinary study draws from the fields of business history, engineering, technology, and architecture, as well as on theories of modernity, in examining attempts to rationalize the...

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Although it may not have entailed the deliberate decision making that defines her rational factory, at least in the mills of Lowell, Massachusetts, an innovative system of production was achieved - with the hoisting of cleaned and carded raw materials to the top floors of the buildings for spinning; the reels of spun thread then brought downstairs for weaving, the finished bolts of cloth packaged on the ground floors.

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The rational factory : architecture, technology, and work in America's age of mass production by Biggs, Lindy. Publication date 1996 Topics Industrial efficiency -- United States, Mass production -- United States, Plant layout, Production engineering Publisher Baltimore : Johns Hopkins University Press

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In *The Rational Factory*, Lindy Biggs contends that factory design played a crucial role in the development of American mass production. Her interdisciplinary study draws from the fields of business history, engineering, technology, architecture, and theories of modernity.

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Such rational factory planning improved production speed and the management of workers. Once created, the rational factory transformed the nature of work, both human and mechanical. In *The Rational Factory*, Lindy Biggs contends that factory design played a crucial role in the development of American mass production. Her interdisciplinary study draws from

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the fields of business history, engineering, technology, architecture, and theories of modernity.

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~~The Rational Factory: Architecture, Technology, and Work ...~~

In The Rational Factory: Architecture, Technology, and Work in America's Age of Mass Production, Lindy Biggs examines the relationship between rationalized, mechanized mass production and the buildings in which the new assembly lines were housed. Focusing primarily on the Ford Motor Company, with supporting evidence ranging from Oliver Evans' flour mill to the professionalization of engineering, Biggs argues that the rational factory combined people, machines, and architecture into an ...

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The rational factory: architecture, technology, and work in America's age of mass production. Johns Hopkins University Press. ISBN 978-0-8018-5261-9. Further reading. Christian, Gallope, D (1987) "Are the classical management functions useful in describing managerial processes?" Academy of Management Review. v 12 n 1, pp. 38–51

~~Factory—Wikipedia~~

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Places the British Industrial Revolution in global context, providing a fresh perspective on the relationship between technology and society.

McGaw; Joy Parr, Simon Fraser University.

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In Chicago's Industrial Decline Robert Lewis charts the city's decline since the 1920s and describes the early development of Chicago's famed (and reviled) growth machine. Beginning in the 1940s and led by local politicians, downtown business interest, financial institutions, and real estate groups, place-dependent organizations in Chicago implemented several industrial renewal initiatives with the dual purpose of stopping factory closings and attracting new firms in order to turn blighted property into modern industrial sites. At the same time, a more powerful coalition sought to adapt the urban fabric to appeal to middle-class consumption and residential living. As Lewis shows, the two aims were never well integrated, and the result was on-going disinvestment and the inexorable decline of Chicago's industrial space. By the 1950s, Lewis argues, it was evident that the early incarnation of the growth machine had failed to maintain Chicago's economic center in industry. Although larger economic and social forces—specifically, competition for business and for residential development from the suburbs in the Chicagoland region and across the whole United States—played a role in the city's industrial decline, Lewis stresses the deep incoherence of post-WWII economic policy and urban planning that hoped to square the circle by supporting both heavy industry and middle-to upper-class amenities in downtown Chicago.

Time Frames provides a reconnaissance on the conservation rules and current protection policies of more than 100 countries, with particular attention to the emerging nations and twentieth-century architecture. The contributions illustrate the critical issues related to architectural listings, with a brief history of national approaches, a linkography and a short

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bibliography. The book also provides a short critical lexicography, with 12 papers written by scholars and experts including topics on identities, heritages, conservation, memories and the economy. By examining the methods used to designate building as heritage sites across the continents, this book provides a comprehensive overview of current protection policies of twentieth-century architecture as well as the role of architectural history.

Building Power examines the ways in which concerns about surveillance informed the design and organization of important building types in the United States between the mid-nineteenth century and World War I. Beginning with settings such as prisons, that were specifically planned around surveillance, Anna Vemer Andrzejewski shows how surveillance also affected the design and use of various buildings and environments, including post offices, factories, offices, houses, and camp meetings. Working with great dexterity from case studies as well as scholarly sources, she argues that surveillance not only motivated a range of common buildings but was also a defining practice of modernism. This wide ranging study draws on fundamental concepts from Michel Foucault, even as it revises and extends them. For Andrzejewski, surveillance is any act of sustained, close observation of others that is intended to transform behavior-of those under surveillance as well as those who initiate it. This definition allows her to illuminate the many ways in which those in positions of power have attempted to influence the actions of others, whether to create and enforce hierarchical boundaries between people, as in the workplace, or to affirm bonds between like-minded individuals, as at Victorian-era revivalist camp meetings. Thinking about surveillance in these terms also allows Andrzejewski to consider ways in which it has influenced diverse American spaces, ranging

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from obvious settings relatively removed from daily life (like penal institutions) to everyday spaces familiar to most Americans (like middle-class houses). Moving across the era, as well as across building types, she shows that as the goals and contexts for surveillance changed, so did its realization in the built environment, resulting in a complicated landscape that influenced both everyday life and the principles of modernism.

The term "technological fix" should mean a fix provided by technology--a solution for all of our problems, from medicine and food production to the environment and business. Instead, technological fix has come to mean a cheap, quick fix using inappropriate technology that usually creates more problems than it solves. This collection sets out the distinction between a technological fix and a true technological solution. Bringing together scholars from a variety of disciplines, the essays trace the technological fix as it has appeared throughout the twentieth century. Addressing such "fixes" as artificial hearts, industrial agriculture and climate engineering, these essays examine our need to turn to technology for solutions to all of our problems.

This reference provides an overview of relevant literature to engineers, managers, accountants, occupational health and safety specialists, and industrial hygienists, so that they, and other professionals, can understand what has caused our workplaces to become primary sources of physical and mental illness.

From the lumberyards and meatpacking factories of the Southwest Side to the industrial

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Suburbs that arose near Lake Calumet at the turn of the twentieth century, manufacturing districts shaped Chicago's character and laid the groundwork for its transformation into a sprawling metropolis. Approaching Chicago's story as a reflection of America's industrial history between the Civil War and World War II, *Chicago Made* explores not only the well-documented workings of centrally located city factories but also the overlooked suburbanization of manufacturing and its profound effect on the metropolitan landscape. Robert Lewis documents how manufacturers, attracted to greenfield sites on the city's outskirts, began to build factory districts there with the help of an intricate network of railroad owners, real estate developers, financiers, and wholesalers. These immense networks of social ties, organizational memberships, and financial relationships were ultimately more consequential, Lewis demonstrates, than any individual achievement. Beyond simply giving Chicago businesses competitive advantages, they transformed the economic geography of the region. Tracing these transformations across seventy-five years, *Chicago Made* establishes a broad new foundation for our understanding of urban industrial America.

Now in a thoroughly updated new edition, this successful textbook surveys the history of technology in America from the 1600s to the 21st century. Alan I Marcus and Howard P. Segal explore the effect society, culture, politics and economics have had upon technological advances, and place the evolution of American technology within the broader context of the development of systems such as transportation and communications. This unique book connects phenomena such as colonial printing presses with the American Revolution; early photographs with the creation of an allegedly unique American character; and high-tech

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Science in biotechnology with a growing desire for individual autonomy. This is an ideal resource for undergraduate and postgraduate students of the history of technology, the history of science, and American history.

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