

MAKING

IRON AND STEEL



INDEPENDENT MILLS
IN PITTSBURGH, 1820-1920



JOHN N. INGHAM

Making Iron And Steel Independent Mills In Pittsburgh 1820 1920

Robert B. Gordon



Making Iron And Steel Independent Mills In Pittsburgh 1820 1920:

Making Iron and Steel John N. Ingham,1991 Making Industrial Pittsburgh Modern Edward K. Muller,Joel A.

Tarr,2019-10-22 Pittsburgh's explosive industrial and population growth between the mid nineteenth century and the Great Depression required constant attention to city building Private profit oriented firms often with government involvement provided necessary transportation energy resources and suitable industrial and residential sites Meeting these requirements in the region's challenging hilly topographical and riverine environment resulted in the dramatic reshaping of the natural landscape At the same time the Pittsburgh region's free market private enterprise emphasis created socio economic imbalances and badly polluted the air water and land Industrial stagnation temporarily interrupted by wars and then followed deindustrialization inspired the formation of powerful public private partnerships to address the region's mounting infrastructural economic and social problems The sixteen essays in Making Industrial Pittsburgh Modern examine important aspects of the modernizing efforts to make Pittsburgh and Southwestern Pennsylvania a successful metropolitan region The city building experiences continue to influence the region's economic transformation spatial structure and life experience

Steel Dale Richard Perelman,2016-12-05 A lively portrait of the Steel City and its millionaires and workers during the late nineteenth century Steel portrays the growth of iron and steel in smoke filled Pittsburgh during America's industrial age and what it meant for the people who lived there This history shares the fast paced saga of millionaire barons Andrew Carnegie Ben Franklin Jones Henry Clay Frick Henry Phipps and Charles Schwab who often plotted and schemed against each other as well as the story of the underpaid and undervalued immigrant workforce whose desire to unionize united their bosses against them Here author Dale Richard Perelman recounts this dramatic struggle and the bloody battles it spawned throughout Western Pennsylvania's plants mines and railroad yards

Steel and Steelworkers John Hinshaw,2012-02-01 Steel and Steelworkers is a fascinating account of the forces that shaped Pittsburgh big business and labor through the city's rapid industrialization in the mid nineteenth century its lengthy era of industrial maturity its precipitous deindustrialization toward the end of the twentieth century and its reinvention from hell with the lid off to America's most livable post industrial city Hinshaw examined a wide variety of company union and government documents oral histories and newspapers to reconstruct the steel industry and the efforts of labor business and government to refashion it A compelling report of industrialization and deindustrialization in which questions of organization power and politics prove as important as economics Steel and Steelworkers shows the ways in which big business and labor helped determine the fate of steel and Pittsburgh

The Inside History of the Carnegie Steel Company James Howard Bridge,2010-01-09 For years I have been convinced that there is not an honest bone in your body Now I know that you are a god damned thief Henry Clay Frick reportedly told Andrew Carnegie at their last meeting in 1900 just before J P Morgan bought the Carnegie Steel Company and founded United States Steel Three years later James Bridge who had served as Carnegie's personal secretary published

this book In it he recounted the events that led up to the final confrontation between two of America s most powerful capitalists The book created a sensation when it appeared in 1903 Not only did it describe the raw emotions of Carnegie and Frick those most brilliant and uneasy of business partners it also told of the history and inner workings of the industrial giant Carnegie Steel Bridge was an open partisan of Frick and the portrait of Carnegie that emerges from this book is not flattering But he was an experienced journalist and he uses sources carefully His book remains a striking insider s narrative of the American steel industry in the last decades of the nineteenth century as well as the most revealing account of the emotions of some of its major owners The introduction by John Ingram places the book in perspective for both the historian and general reader close An Economic History of the American Steel Industry , *American Iron, 1607-1900* Robert B. Gordon,2020-03-24 Winner of the Professional and Scholarly Publishing Award for General Engineering from the Association of American Publishers Originally published in 1996 By applying their abundant natural resources to ironmaking early in the eighteenth century Americans soon made themselves felt in world markets After the Revolution ironmakers supplied the materials necessary to the building of American industry pushing the fuel efficiency and productivity of their furnaces far ahead of their European rivals In *American Iron 1607 1900* Robert B Gordon draws on recent archaeological findings as well as archival research to present an ambitious comprehensive survey of iron technology in America from the colonial period to the industry s demise at about the turn of the twentieth century Closely examining the techniques the hows of ironmaking in its various forms Gordon offers new interpretations of labor innovation and product quality in ironmaking along with references to the industry s environmental consequences He establishes the high level of skills required to ensure efficient and safe operation of furnaces and to improve the quality of iron product By mastering founding fining puddling or bloom smelting ironworkers gained a degree of control over their lives not easily attained by others **The Human Footprint** Anthony N. Penna,2014-10-15 *The Human Footprint A Global Environmental History* Second Edition presents a multidisciplinary global history of Earth from its origins to the present day Provides a comprehensive global multidisciplinary history of the planet from its earliest origins to the present era Draws on the most recent research in geology climatology evolutionary biology archaeology anthropology history demography and the social and physical sciences Features the latest research findings on planetary history human evolution the green agricultural revolution climate change global warming and the nature of world human history interdependencies Offers in depth analyses of topics relating to human evolution agriculture population growth urbanization manufacturing consumption industrialization and fossil fuel dependency **Historical Dictionary of the Gilded Age** Leonard C. Schlup,James Gilbert Ryan,2003 Covers all the people events movements subjects court cases inventions and more that defined the Gilded Age **Citizen Employers** Jeffrey Haydu,2019-06-30 The exceptional weakness of the American labor movement has often been attributed to the successful resistance of American employers to unionization and collective bargaining However the ideology deployed against labor s

efforts to organize at the grassroots level has received less attention In *Citizen Employers* Jeffrey Haydu compares the very different employer attitudes and experiences that guided labor capital relations in two American cities Cincinnati and San Francisco in the period between the Civil War and World War I His account puts these attitudes and experiences into the larger framework of capitalist class formation and businessmen s collective identities Cincinnati and San Francisco saw dramatically different developments in businessmen s class alignments civic identities and approach to unions In Cincinnati manufacturing and commercial interests joined together in a variety of civic organizations and business clubs These organizations helped members overcome their conflicts and identify their interests with the good of the municipal community That pervasive ideology of business citizenship provided much of the rationale for opposing unions In sharp contrast San Francisco s businessmen remained divided among themselves opted to side with white labor against the Chinese and advocated treating both unions and business organizations as legitimate units of economic and municipal governance *Citizen Employers* closely examines the reasons why these two bourgeoisies located in comparable cities in the same country at the same time differed so radically in their degree of unity and in their attitudes toward labor unions and how their views would ultimately converge and harden against labor by the 1920s With its nuanced depiction of civic ideology and class formation and its application of social movement theory to economic elites this book offers a new way to look at employer attitudes toward unions and collective bargaining That new approach Haydu argues is equally applicable to understanding challenges facing the American labor movement today

The Innovators, Trade David P. Billington, 2008-04-21 A richly illustrated introduction to the engineering triumphs that made America modern In this age of microchips and deep space probes it s hard to imagine life before electricity or passenger trains An astonishing series of engineering innovations paved the way to the twentieth century and transformed America into the world s mightiest industrial power *The Innovators* tells the exciting story of the engineering pioneers whose discoveries so dramatically altered commerce industry and world history The book takes readers into the workshops of America s early engineering geniuses explaining how they came up with their ideas and later applied them in the marketplace Devotees of history and technology will appreciate the finely drawn profiles of America s technical wizards from the famous including Robert Fulton the inventor of the steamboat Samuel F B Morse the inventor of the telegraph and Thomas Edison inventor of the first electrical power network to the lesser known such as J Edgar Thompson who built the Pennsylvania Railroad From the author of the critically acclaimed *The Tower and the Bridge* Features over 80 illustrations of the engineers and their inventions DAVID P BILLINGTON Princeton New Jersey a professor of civil engineering at Princeton University is the author of *The Tower and the Bridge* and Robert Maillart s *Bridges The Art of Engineering* which won the 1979 Dexter Prize as the outstanding book on the history of technology

Mastering Iron Anne Kelly Knowles, 2013-01-15 Veins of iron run deep in the history of America Iron making began almost as soon as European settlement with the establishment of the first ironworks in colonial Massachusetts Yet it was Great Britain that

became the Atlantic world's dominant low cost high volume producer of iron a position it retained throughout the nineteenth century. It was not until after the Civil War that American iron producers began to match the scale and efficiency of the British iron industry. In *Mastering Iron*, Anne Kelly Knowles argues that the prolonged development of the US iron industry was largely due to geographical problems the British did not face. Pairing exhaustive manuscript research with analysis of a detailed geospatial database that she built of the industry, Knowles reconstructs the American iron industry in unprecedented depth from locating hundreds of iron companies in their social and environmental contexts to explaining workplace culture and social relations between workers and managers. She demonstrates how ironworks in Alabama, Maryland, Pennsylvania and Virginia struggled to replicate British technologies but in the attempt brought about changes in the American industry that set the stage for the subsequent age of steel. Richly illustrated with dozens of original maps and period art work all in full color, *Mastering Iron* sheds new light on American ambitions and highlights the challenges a young nation faced as it grappled with its geographic conditions.

Carpet Capital Randall L. Patton, 2003-12-01 After World War II the carpet industry came to be identified with the Dalton region of northwest Georgia. Here entrepreneurs hit upon a new technology called tufting which enabled them to take control of this important segment of America's textile industry previously dominated by woven wool carpet manufacturers in the Northeast. Dalton now dominates carpet production in the United States manufacturing 70 percent of the domestic product and prides itself as the carpet capital of the world. *Carpet Capital* is a story of revolutionary changes that transformed both an industry and a region. Its balanced and candid account details the rise of a home grown southern industry and entrepreneurial capitalism at a time when other southern state and local governments sought to attract capital and technology from outside the region. The book summarizes the development of the American carpet industry from the early nineteenth century through the 1930s. In describing the tufted carpet boom it focuses on Barwick Mills, Galaxy Mills and Shaw Industries as representative of various phases in the industry's history. It tells how owners coordinated efforts to keep carpet mills unorganized despite efforts of the Textile Workers Union of America by promoting a vision of the future based on individual ambition rather than collective security. Randall L. Patton and David B. Parker show that Dalton has evolved in much the same way as California's Silicon Valley experiencing both a rapid expansion of new firms started by entrepreneurs who had apprenticed in older firms and an air of cooperation both among owners and between mills and local government. Their close examination of this industry provides important insights for scholars and business leaders alike enhancing our appreciation of entrepreneurial achievement and broadening our understanding of economic growth in the modern South.

The Emergence of European Trade Unionism Jean-Louis Robert, 2018-01-18 *The Emergence of European Trade Unionism* examines the pre 1914 development of trade unions in different European countries including France, Germany, Britain and The Netherlands. Part one examines trade unionism in the iron, steel and textile industries as well as the Dockers unions in the ports of London. A variety of locations is considered large to medium

towns and textile and machine making cities Part two continues with assessments of major aspects of industrial relations in these countries Collectively the essays provide a fresh reassessment of Western European trade unionism in the four decades before the First World War By taking such an overtly comparative position in terms of subject matter geographical coverage and approach the book offers intriguing insights and unusual perspectives into the national international and transnational themes that run through the history of early twentieth century trade unionism Henry E. Huntington and the Creation of Southern California William B. Friedrichs, 1992 Henry E Huntington nephew and prot g of Southern Pacific Railroad magnate Collis Huntington decided to invest his fortune in developing interurban railroads serving the Los Angeles Basin beginning in 1898 and working through 1920 With enough capital to put railroads where he felt they would work best he exerted considerable influence on the early growth of Southern California He also invested in a number of other regional industries and as an avid collector of rare books and art he and his second wife Arabella created a notable cultural legacy as well

Gray Gold Mark Chambers, 2023-08-18 Winner of the Clark C Spence Award from the Mining History Association While the histories of gold silver and copper mining and smelting are well studied lead has not received much scholarly attention despite a long history of both Native American and European desire for the ore Over time native peoples made lead ornaments in molds French and American settlers used lead to form musket balls red lead became an important production element for flint and crystal production and white lead was used in making paint until the mid twentieth century Gray Gold aims to broaden understandings of early colonial and Native American history by turning attention to the ways that mining and its scientific technological economic cultural and environmental features shaped intercultural interactions and developments in the New World Backed by remarkable original sources such as firsthand mining accounts letters and surveys Mark Chambers s study demonstrates how early mining techniques affected the culture clash between Native Americans and Europeans all the while tracking the impact increased mining had on the environment of what would become the states of Illinois and Missouri Chambers traces the evolution of lead mining and smelting technology through pre contact America to the amalgamation of aboriginal processes with French colonial development through Spain s short occupation to the Louisiana Purchase and ultimately the technology transfer from Europe to an efficient and year round standard of practice after American assumption Additionally while slavery in early American industry has been touched on in iron manufacturing and coal mining scholarship the lead mining context sheds new light on the history of that grievous institution Gray Gold adds significantly to the understanding of lead mining and the economic and industrial history of the United States Chambers makes important contributions to the fields of United States history Native American and frontier history mining and environmental history and the history of science and technology *Citizen Worker* David Montgomery, 1993 Discusses the relationship between workers and the government by focusing not on the legal regulation of unions and strikes but on popular struggles for citizenship rights **The Early Republic and Antebellum America: An Encyclopedia of Social,**

Political, Cultural, and Economic History Christopher G. Bates, 2015-04-08 First Published in 2015 This text holds four volumes of essays and entries on the early Republic and Antebellum era in America spanning the end of the American Revolution in 1781 to the outbreak of Civil War in 1861 The Americans forged a new government in theory and then in practice with the beginnings of industrialisation and the effects of urbanisation widespread poverty labour strife debates around slavery and sectional discord By the end of the nineteenth century American had a powerhouse economy new technologies and the emergence of major social reform movements creation of uniquely American art and literature and the conquest of the West This encyclopaedia offers a historic reference *Ragged Dicks* James V. Catano, 2001 Corporate magnates of the late 20th century as exemplified by Lee Iacocca and industrial barons on the Gilded Age such as Andrew Carnegie comprise the brotherhood Catano English Louisiana State U calls *Ragged Dicks* He examines their own accounts of themselves to reveal how the rich take personal credit for their success c Book News Inc *Beyond the Broker State* Jonathan J. Bean, 2002-03-01 Focusing on anti chain store legislation beginning in the 1930s and on the establishment of federal small business agencies in the 1940s and 1950s Jonathan Bean analyzes public policy toward small business *Beyond the Broker State* challenges the long accepted definition of politics as the interplay of organized interest groups mediated by a broker state

Unveiling the Magic of Words: A Review of "**Making Iron And Steel Independent Mills In Pittsburgh 1820 1920**"

In a global 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 actually awe-inspiring. Enter the realm of "**Making Iron And Steel Independent Mills In Pittsburgh 1820 1920**," 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 into the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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