

The Anthracite Iron Industry of the Lehigh Valley



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The Anthracite Iron Industry Of The Lehigh Valley:

The Anthracite Iron Industry of the Lehigh Valley Craig L. Bartholomew, Lance E. Metz, 1988 *Bethlehem Steel* Kenneth Warren, 2008-01-17 In the late 19th century rails from Bethlehem Steel helped build the United States into the world's foremost economy. During the 1890s Bethlehem became America's leading supplier of heavy armaments and by 1914 it had pioneered new methods of structural steel manufacture that transformed urban skylines. Demand for its war materials during World War I provided the finance for Bethlehem to become the world's second largest steel maker. As late as 1974 the company achieved record earnings of 342 million. But in the 1980s and 1990s through wildly fluctuating times losses outweighed gains and Bethlehem struggled to downsize and reinvest in newer technologies. By 2001 in financial collapse it reluctantly filed for Chapter 11 bankruptcy protection. Two years later International Steel Group acquired the company for 1.5 billion. In *Bethlehem Steel* Kenneth Warren presents an original and compelling history of a leading American company, examining the numerous factors contributing to the growth of this titan and those that eventually felled it along with many of its competitors in the U.S. steel industry. Warren considers the investment failures, indecision, and slowness to abandon or restructure outdated integrated plants plaguing what had become an insular, inward-looking management group. Meanwhile competition increased from more economical mini-mills at home and from new technologically superior plants overseas which drove world prices down, causing huge flows of imported steel into the United States. Bethlehem Steel provides a fascinating case study in the transformation of a major industry from one of American dominance to one where America struggled to survive.

Technological Innovation and Economic Change in the Iron Industry, 1850-1920 Robert A. Battis, 2018-03-26 Originally published in 1989, this study examines some new facets in the development of the iron industry in the USA between 1839 and 1921 through the study of an individual firm, namely the Thoms Iron Company, one of the leading merchant furnace companies. It charts the end of the anthracite iron age and the changes which brought about the advent of open hearth steel and integrated steel works. The book discusses the problems the managers of the firm faced with the appearance of industrial innovations which tended to undermine their firm's very existence and provided a new set of optimal conditions necessary for the survival of the firm. It provides a clear understanding of the destructive forces of industrial innovation and the place of creative entrepreneurship in the survival of the firm. *The American Steel Industry, 1850-1970* Kenneth Warren, 2014-02-20 A richly detailed account of the American steel industry from its beginnings until 1970 when its long period of international leadership was challenged, this book interprets steel from viewpoints of historical and economic geography. It considers both physical factors such as resources and human factors such as market organization and governmental policy. In major discussions of the east coast, Pittsburgh, the Ohio Valley, the Great Lakes, the South, and the West, Warren analyzes the location and relocation of steel plants over 120 years. He explains the influence on location of a variety of factors: The accessibility of resources, the cost of transportation, the existence of specialized markets, and the

availability of entrepreneurial skills capital and labor He also evaluates the role of management in the development of the industry through an analysis of individual companies including Bethlehem Carnegie United States Steel Kaiser Inland Jones and Laughlin and Youngstown Sheet and Tube Warren examines the influence exerted on the industry by complex technological changes and weighs their significance against market forces and the supply of natural resources In the production process alone the industry changed from pig iron to steel from charcoal to anthracite to bituminous coking coal and from the widespread use of low grade ore from the eastern United States to the high quality but localized deposits of the Upper Great Lakes to imported ores Unlike other industrialized nations the United States has undergone major geographical shifts in steel consumption since the 1850s As the American population moved south and west into new territory steel followed Warren concludes that these radical alterations in the distribution and demand were the decisive force in the location of steel production

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 History of the

Manufacture of Iron in All Ages James Moore Swank, 1892 *The Historical Geography of the Iron Industry of the United States* Albertine E. Metzner, 1918

Routes of Power Christopher F. Jones, 2014-04-07 The fossil fuel revolution is usually a tale of advances in energy production Christopher Jones tells a tale of advances in energy access canals pipelines wires delivering cheap abundant power to cities at a distance from production sites Between 1820 and 1930 these new transportation networks set the U S on a path to fossil fuel dependence *The Bulletin of the American Iron and Steel Association* American Iron and Steel Association, 1886 *Industrial World*, 1896 The Congressional Globe United States Congress, 1870 The National Cyclopaedia of American Biography, 1893 **Iron Trade Review**, 1899 *Engineering and Mining Journal*, 1885 The Commercial & Financial Chronicle ..., 1897 Coal and Coal Trade Journal, 1898 **The**

Age of Steel ,1896 *Canal History and Technology Proceedings* ,1999 *Financial and Mining Record* ,1888 **Josiah**
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Table of Contents The Anthracite Iron Industry Of The Lehigh Valley

1. Understanding the eBook The Anthracite Iron Industry Of The Lehigh Valley
 - The Rise of Digital Reading The Anthracite Iron Industry Of The Lehigh Valley
 - Advantages of eBooks Over Traditional Books
2. Identifying The Anthracite Iron Industry Of The Lehigh Valley
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an The Anthracite Iron Industry Of The Lehigh Valley
 - User-Friendly Interface
4. Exploring eBook Recommendations from The Anthracite Iron Industry Of The Lehigh Valley
 - Personalized Recommendations
 - The Anthracite Iron Industry Of The Lehigh Valley User Reviews and Ratings
 - The Anthracite Iron Industry Of The Lehigh Valley and Bestseller Lists
5. Accessing The Anthracite Iron Industry Of The Lehigh Valley Free and Paid eBooks
 - The Anthracite Iron Industry Of The Lehigh Valley Public Domain eBooks
 - The Anthracite Iron Industry Of The Lehigh Valley eBook Subscription Services

- The Anthracite Iron Industry Of The Lehigh Valley Budget-Friendly Options
- 6. Navigating The Anthracite Iron Industry Of The Lehigh Valley eBook Formats
 - ePub, PDF, MOBI, and More
 - The Anthracite Iron Industry Of The Lehigh Valley Compatibility with Devices
 - The Anthracite Iron Industry Of The Lehigh Valley Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of The Anthracite Iron Industry Of The Lehigh Valley
 - Highlighting and Note-Taking The Anthracite Iron Industry Of The Lehigh Valley
 - Interactive Elements The Anthracite Iron Industry Of The Lehigh Valley
- 8. Staying Engaged with The Anthracite Iron Industry Of The Lehigh Valley
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers The Anthracite Iron Industry Of The Lehigh Valley
- 9. Balancing eBooks and Physical Books The Anthracite Iron Industry Of The Lehigh Valley
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection The Anthracite Iron Industry Of The Lehigh Valley
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine The Anthracite Iron Industry Of The Lehigh Valley
 - Setting Reading Goals The Anthracite Iron Industry Of The Lehigh Valley
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of The Anthracite Iron Industry Of The Lehigh Valley
 - Fact-Checking eBook Content of The Anthracite Iron Industry Of The Lehigh Valley
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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