

The Revolution in Energy and Industry, ca. 1780–1850

I. The Industrial Revolution in Britain

A. Eighteenth-Century Origins

1. Mercantilism
2. Agriculture
3. Geography
4. Other Advantages
5. The Industrial Revolution

B. The First Factories

1. New Inventions
2. Impact
3. Working Conditions

I. The Industrial Revolution in Britain

C. The Problem of Energy

1. Energy Shortages

D. The Steam Engine Breakthrough

1. Coal

2. James Watt (1736–1819)

3. Impact

I. The Industrial Revolution in Britain

E. The Coming of the Railroads (1816–1830)

1. Advantages
2. Significance



Map 21.1 The Industrial Revolution in England, ca. 1850
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I. The Industrial Revolution in Britain

F. Industry and Population

1. Crystal Palace (1851)
2. Industrial Achievements
3. Debates About Population Growth
 - A. The Optimists
 - B. The Pessimists
 - C. Assessing the Debate

II. Industrialization in Continental Europe

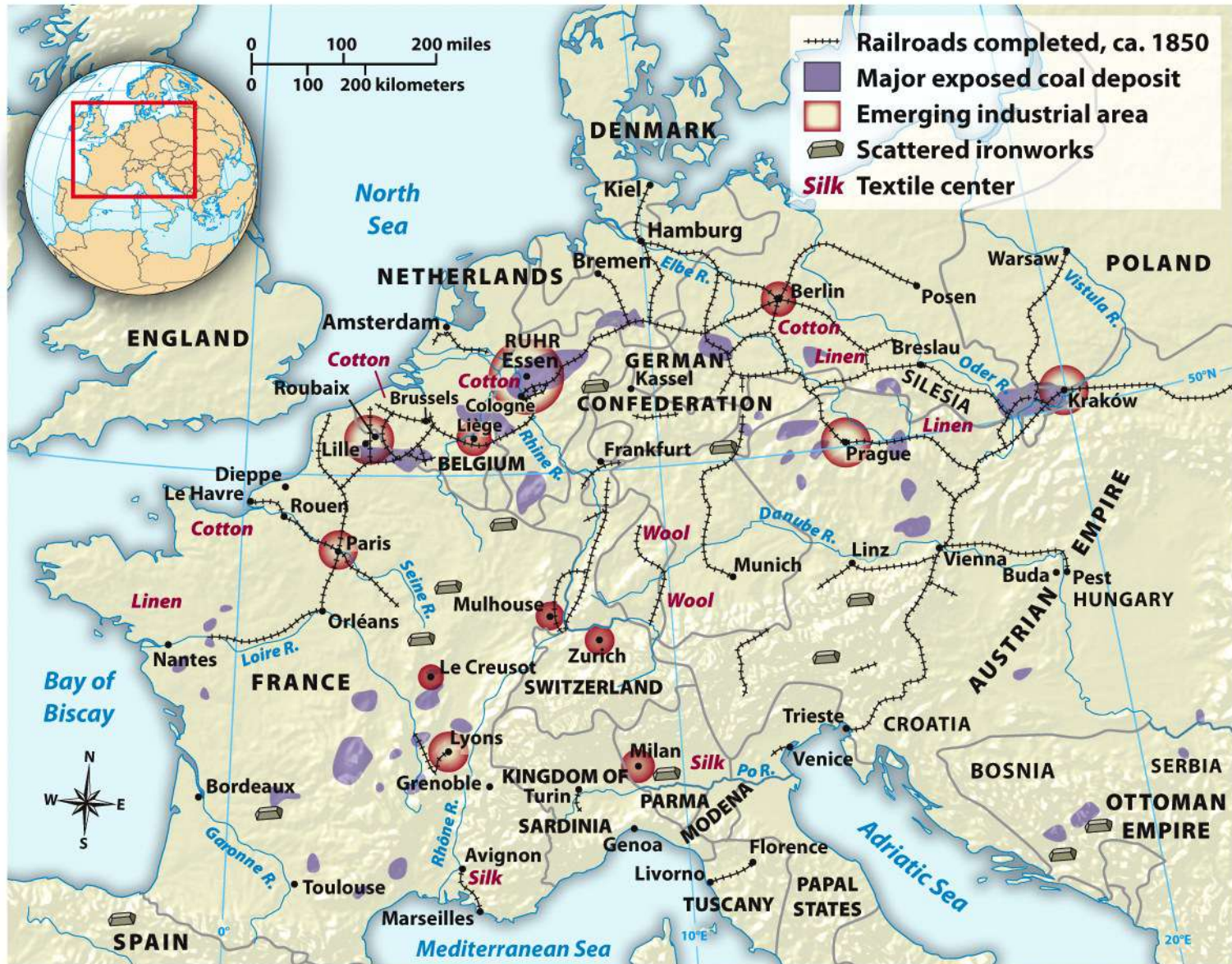
A. National Variations

1. The British Head Start
2. Variations in Timing
3. Deindustrialization

II. Industrialization in Continental Europe

B. The Challenge of Industrialization

1. Widening Gap Between Britain and the Continent
2. Cost
3. Continental Advantages



Map 21.2 Continental Industrialization, ca. 1850
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II. Industrialization in Continental Europe

C. Agents of Industrialization

1. Émigré Technicians
2. Émigré Workers
3. Indigenous Entrepreneurs

D. Government Support and Corporate Banking

1. Tariffs
2. Infrastructure
3. Corporate Banks
4. Continental Growth

III. Relations Between Capital and Labor

A. The New Class of Factory Owners

1. Competition
2. Background
3. Growing Class Consciousness



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III. Relations Between Capital and Labor

B. The New Factory Workers

1. Critics of the Industrial Revolution

A. Romantics

B. Luddites

C. Friedrich Engels (1820–1895)

2. Defenders

3. Conclusions

III. Relations Between Capital and Labor

C. Work in Early Factories

1. Harsh Conditions
2. Paupers and Abandoned Children

D. Working Families and Children

1. Family Units
2. Child Labor
3. Ties of Blood and Kinship

III. Relations Between Capital and Labor

E. The Sexual Division of Labor

1. Separate Spheres
2. Women Workers
3. Explanations (For Gender Inequality)
 - A. “Patriarchal Tradition”
 - B. Conflicts with Child-Rearing
 - C. Urban Poverty
 - D. Controlling Illegitimacy

III. Relations Between Capital and Labor

F. The Early Labor Movement in Britain

1. Persistence of Traditions
2. Capitalist Attack on Artisans and Guilds
3. The Response