Life in the Emerging Urban Society

1840–1914

When Londoners gathered in 1860 at the Grand Fete in the Crystal Palace (see painting on right), they enjoyed the pleasures of an established industrial urban society that would have been unthinkable just sixty years earlier. Across the nineteenth century, as industrialization expanded exponentially, Europeans left their farms and country villages to find work in the ever-growing towns and cities. By 1900, in much of developed western Europe, more than half the population lived in urban conglomerations, a trend of rural-to-urban migration that would spread and continue across the twentieth century.

Despite the happy faces in the London crowd, the emerging urban society brought costs as well as benefits. Advances in public health and urban planning brought some relief to the squalid working-class slums. On the whole, living standards rose in the 1800s, but wages and living conditions varied greatly according to status, and many urban residents were still poor. Differences in income, education, and occupation divided people into socially stratified groups; rather than discuss “the” working class or “the” middle class, it is more accurate to speak of “working classes” and “middle classes” and consider the blurring boundaries between the two. Major changes in family life and gender roles accompanied this more diversified class system. Dramatic breakthroughs in chemistry, medicine, and electrical engineering further transformed urban society after 1880, and a new generation of artists, writers, and professional social scientists struggled to explain and portray the vast changes wrought by urbanization.

ONLINE DOCUMENT ASSIGNMENT
Life in the Modern City on Film
How did people respond to the challenges brought on by rapid urbanization? Go to the Integrated Media and view film footage that captures new developments in city life—from mass transit to waste disposal—and then complete a writing assignment based on the evidence and details from this chapter.
CHAPTER PREVIEW

LearningCurve
After reading the chapter, go online and use LearningCurve to retain what you’ve read.

Taming the City
How did urban life change in the nineteenth century?

Rich and Poor and Those in Between
What did the emergence of urban industrial society mean for rich and poor and those in between?

Changing Family Lifestyles
How did urbanization affect family life and gender roles?

Science and Thought
How and why did intellectual life change in this period?
Since the Middle Ages, European cities had been centers of government, culture, and large-scale commerce. They had also been congested, dirty, and unhealthy. Beginning in the early nineteenth century, the Industrial Revolution took these unfortunate realities of urban life to unprecedented levels. While historians may debate whether the overall social impact of industrialization was generally positive or negative, there is little doubt that rapid urban growth worsened long-standing overcrowding, pollution, and unhealthy living conditions, and posed a frightening challenge for society. Only the full-scale efforts of government leaders, city planners, reformers, scientists, and reform-minded citizens would tame the ferocious savagery of the industrial city.

Industry and the Growth of Cities

The main causes of the poor quality of urban life—deadly overcrowding, pervasive poverty, and lack of medical knowledge—had existed for centuries. Because the typical city had always been a "walking city," with no public transportation, great masses of people needed to live in close proximity to shops, markets, and workplaces. Packed together almost as tightly as possible, people in cities suffered and died from the spread of infectious disease in far greater numbers than their rural counterparts. In the larger towns, more people died each year than were born, on average, and urban populations maintained their numbers only because newcomers continually arrived from rural areas.

The Industrial Revolution exacerbated these deplorable conditions. The steam engine freed industrialists from dependence on the energy of fast-flowing streams and rivers so that by 1800 there was every incentive to build new factories in urban areas, which had many advantages. Cities had better shipping facilities than the countryside and thus better supplies of coal and raw materials. Cities had many hands wanting work, for they drew people like a magnet. And it was a great advantage for a manufacturer to have other factories nearby to supply the business's needs and buy its products. Therefore, as industry grew, already overcrowded and unhealthy cities expanded rapidly.

Great Britain, the first country in the world to go through the early stages of the Industrial Revolution (see Chapter 20), was forced to face the acute challenges of a changing urban environment early on. In the 1820s and 1830s the populations of a number of British cities increased by 40 to 70 percent each decade. The number of people living in cities of 20,000 or more in England and Wales jumped from 1.5 million in 1801 to 6.3 million in 1851 and reached 15.6 million in 1891. Such cities accounted for 17 percent of the total English population in 1801, 35 percent as early as 1851, and fully 54 percent in 1891. Other countries duplicated the English pattern as they industrialized (Map 22.1). (See "Primary Source 22.1: First Impressions of the World's Biggest City," page 720.)

Except on the outskirts, early-nineteenth-century cities in Britain used every scrap of available land to the fullest extent. Parks and open areas were almost nonexistent. Developers erected buildings on the smallest possible lots in order to pack the maximum number of people into a given space. Narrow houses were built attached to one another in long rows. These row houses had neither front nor back yards, and only a narrow alley in back separated one row from the next. Other buildings were built around tiny courtyards completely enclosed on all four sides. Many people lived in extremely small, often overcrowded cellars or attics. "Six, eight, and even ten occupying one room is anything but uncommon," wrote a Scottish doctor for a government investigation in 1842.

These highly concentrated urban populations lived in extremely unsanitary and unhealthy conditions. Open drains and sewers flowed alongside or down the middle of unpaved streets. Toilet facilities were extremely primitive and inadequate. In parts of Manchester, as many as two hundred people shared a single outhouse. Such privies filled up rapidly; and since they were infrequently emptied, sewage often overflowed and seeped into cellar dwellings. Moreover, some courtyards in poorer neighborhoods became dunghills, collecting excrement that was sometimes sold as fertilizer and sometimes simply continued to accumulate. By the 1840s there was among the better-off classes a growing, shocking "realization that," as one scholar put it, "millions of English men, women, and children were living in shit."
The environmental costs of rapid urbanization and industrialization were enormous as well. Black soot from coal-fired factories and train engines fouled city air, and by 1850 the River Thames was little better than an open sewer.

Who or what bore responsibility for these awful conditions? The crucial factors included the tremendous pressure of more people and the total absence of public transportation. People simply had to jam themselves together to get to shops and factories on foot. In addition, government in Great Britain, both local and national, only slowly established sanitary facilities and adequate building codes. Scientific understanding of the causes and consequences of urban crowding advanced slowly, and some elites actively opposed government action. Certainly, Great Britain had no monopoly on overcrowded and unhealthy urban conditions; many continental cities were every bit as bad.

Most responsible of all was the sad legacy of rural housing conditions in preindustrial society combined with appalling ignorance of germs and basic hygiene. When ordinary people moved to the city, housing was far down on their list of priorities, and they generally took dirt for granted. One English miner told an investigator, "I do not think it usual for the lasses [in the coal mines] to wash their bodies; my sisters never wash themselves." As for the men, "their legs and bodies are as black as your hat."

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<th>Year</th>
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<tr>
<td>ca. 1840s–1890s</td>
<td>Realism dominant in Western literature</td>
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<td>1848</td>
<td>First public health law in Britain</td>
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<td>ca. 1850–1870</td>
<td>Modernization of Paris</td>
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<td>1850–1914</td>
<td>Condition of working classes improves</td>
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<td>1854</td>
<td>Pasteur begins studying fermentation and in 1863 develops pasteurization</td>
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<td>1854–1870</td>
<td>Development of germ theory</td>
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<td>1859</td>
<td>Darwin publishes <em>On the Origin of Species by the Means of Natural Selection</em></td>
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<td>1869</td>
<td>Mendeleev creates periodic table</td>
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<td>1880–1913</td>
<td>Second Industrial Revolution; birthrate steadily declines in Europe</td>
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<td>1890s</td>
<td>Electric streetcars introduced in Europe</td>
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**King Cholera** This 1852 drawing from *Punch* tells volumes about the unhealthy living conditions of the urban poor, in the foreground children play with a dead rat and a woman scavenges a dung heap. Cheap rooming houses provide shelter for the frightfully overcrowded population. Such conditions and contaminated water spread deadly cholera epidemics throughout Europe in the 1800s. (© British Library Board)
**First Impressions of the World’s Biggest City**

In 1870, with over 4 million inhabitants, London was the largest city in the world. In this anonymous, tongue-in-cheek passage, first published as a humorous sketch around 1870, a country man describes his first impressions of urban life.

A man’s first residence in London is a revolution in his life and feelings. He loses at once no small part of his individuality. He was a man before, now he is a “party.” No longer known as Mr. Brown, but as (say) No. XXI., he feels as one of many cogs in one of the many wheels of an incessantly wearing, tearing, grinding, system of machinery. His country notions must be modified, and all his life-long ways and takings-for-granted prove crude and questionable. He is hourly reminded “This is not the way in London; that this won’t work here,” or, “people always expect,” and “you’ll soon find the difference.”

Competition in London is very keen. The cheap five-shilling hatter was soon surprised by a four-and-nine-penny shop opposite. Few London men could live but by a degree of energy which the country dealer little knows. The wear and tear of nerve-power and the discharge of brain-power in London are enormous. The London man lives fast.

Many other things contribute to make our new Londoner feel smaller in his own eyes. The living stream flows by him in the streets; he never saw so many utter strangers to him and to each other before; their very pace and destination are different; there is a walk and business determination distinctly London. In other towns men saunter they know not whither, but nearly every passer-by in London has his point, and is making so resolutely towards it that it seems not more his way than his destination as he is carried on with the current; and of street currents there are two, to the City and from the City, so distinct and persistent, that our friend can’t get out of one without being jostled by the other.

Self-dependence is another habit peculiarly of London growth. Men soon discover they have no longer the friend, the relative or the neighbour of their own small town to fall back upon.

No doubt there are warm friendships and intimacies in London as well as in the country, but few and far between. People associate more at arm’s length, and give their hand more readily than their heart, and hug themselves within their own domestic circles. You know too little of people to be deeply interested either in them or their fortunes, so you expect nothing and are surprised at nothing. An acquaintance may depart London life, and even this life, or be sold up and disappear, without the same surprise or making the same gap as in a village circle.

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**The Advent of the Public Health Movement**

Toward the middle of the nineteenth century, people’s fatalistic acceptance of their overcrowded, unsanitary surroundings began to give way to a growing interest in reform and improvement. Edwin Chadwick, one of the commissioners charged with the administration of relief to paupers under Britain’s revised Poor Law of 1834, emerged as a powerful voice for reform. Chadwick found inspiration in the ideas of radical philosopher Jeremy Bentham (1748–1832), whose approach to social issues, called utilitarianism, had taught that public problems ought to be dealt with on a rational, scientific basis to advance the “greatest good for the greatest number.” Applying these principles, Chadwick soon became convinced that disease and death actually caused poverty, because a sick worker was an unemployed worker and orphaned children were poor children. Most important, Chadwick believed that government could help prevent disease by cleaning up the urban environment.

Chadwick collected detailed reports from local Poor Law officials on the “sanitary conditions of the laboring population” and published his hard-hitting findings in 1842. This mass of widely publicized evidence proved that disease was related to filthy environmental conditions, which were in turn caused largely by lack of drainage, sewers, and garbage collection.

Chadwick correctly believed that the stinking excrement of communal outhouses could be dependably carried off by water through sewers at less than one-twentieth the cost of removing it by hand. The cheap iron pipes and tile drains of the industrial age would...
provide running water and sewerage for all sections of town, not just the wealthy ones. In 1848, with the cause strengthened by a cholera epidemic that raged across Britain, Chadwick’s report became the basis of Great Britain’s first public health law, which created a national health board and gave cities broad authority to build modern sanitary systems. (See “The Past Living Now: Modern Sewage Systems,” page 722.)

The public health movement won dedicated supporters in the United States, France, and Germany from the late 1840s on. Governments accepted at least limited responsibility for the health of all citizens, and their programs broke decisively with the age-old fatalism of urban populations. By the 1860s and 1870s European cities were making real progress toward adequate water supplies and sewerage systems. Though factories and coal stoves continued to pump black smoke into the air, and pollution remained a serious problem, city dwellers started to reap the reward of better health, and death rates began to decline (Figure 22.1).
Some of our most mundane activities, such as taking a shower or flushing the toilet, bring us into daily contact with an unappreciated marvel of late-nineteenth-century engineering and urban reform: the modern sewage system. Before the mid-1800s, human waste was typically deposited in chamber pots and tossed into the street with a warning shout, where rainwater carried it through open canals into local rivers. In densely populated urban areas, waste was often collected through latrines in cesspools, underground pits located beneath living quarters. Cesspool cleaners, or “nightsoilmen,” periodically emptied the pits, carting waste to designated dumpsites where it might be turned into fertilizer.

The rapid growth of cities and explosive rise in urban populations across the nineteenth century overwhelmed these methods of sewage disposal. In an ironic twist, the popularization of a sanitation improvement—the flush toilet—spelled disaster for the cesspool. With each flush, a large volume of water accompanied a small amount of waste, rapidly filling cesspools with liquid. Cesspool pits then leaked, spilling untreated sewage into waterways. The results—unbearably odorous—were also deadly. Water polluted with the bacteria that cause cholera and typhoid seeped into drinking supplies, causing mass epidemics across Europe.

London, the largest city at the time, was a perfect example. As the population more than tripled from about 1.3 million in 1825 to 4.2 million in 1875, the sewage problem became catastrophic. Cesspools overflowed, and flush toilets installed in new buildings drained directly into the River Thames, the main source of drinking water for London residents. Over twenty thousand died in the cholera epidemics of 1832 and 1849, and another eleven thousand perished of the same disease in 1854. Though urban reformers initially blamed the epidemics on foul smells (or “miasmas”) rather than bacteria, they did correctly identify putrid water as the cause and called on urban authorities to take action. The famous “Great Stink” of the summer of 1858, when appalling fumes from the fetid river threatened to shut down the city, underscored the urgent need for change.

In response, between 1858 and 1865 the London Metropolitan Board of Works, led by engineer Joseph Bazalgette, built a massive network of new sewers that one Sunday paper called “the most extensive and wonderful work of modern times.”

What Torrents of Filth Come from That Walbrook Sewer!! This 1832 cartoon by satirist George Cruikshank shows the director of the Southwark Water Works, a main source of London’s drinking water, enthroned on an intake valve in the midst of a heavily polluted River Thames. Wearing a chamber pot for a hat and holding a trident with an impaled dog, cat, and rat, he raises a glass of foul liquid to the cries of “Give Us Clean Water!” and “It Makes Me Sick!” (© Science Museum/Science & Society Picture Library)

Bazalgette and his construction crews enclosed open canals in underground channels that combined flows of rainwater and human waste. London's massive interception sewers now emptied sewage into irrigation fields and treatment plants rather than directly into the Thames.

Inspired by London’s example, urban engineers across Europe and North America built their own sewers and treatment plants, which limited the dumping of raw waste into local rivers, lakes, or seas. Sewage systems have improved since then, but the basic nineteenth-century designs—and often the drainage systems themselves—remain a vital if unacknowledged aspect of everyday life in the twenty-first century.

**QUESTIONS FOR ANALYSIS**

1. Why would contemporaries view Bazalgette's sewer system as a "wonderful work of modern times"?

2. How did progressive ideas about public health and urban reform drive the construction of late-nineteenth-century sewage systems? What other public works projects or public health initiatives promoted today have roots in nineteenth-century visions of social progress?
The Bacterial Revolution

Although improved sanitation in cities promoted a better quality of life and some improvements in health care, effective control of communicable disease required a great leap forward in medical knowledge and biological theory. Early reformers, including Chadwick, were seriously handicapped by their adherence to the prevailing miasmatic theory of disease—the belief that people contracted disease when they inhaled the bad odors of decay and putrefying excrement. In the 1840s and 1850s keen observation by doctors and public health officials pinpointed the role of bad drinking water in the transmission of disease and suggested that contagion was spread through physical contact with filth, not by its odors, thus weakening the miasmatic idea.

The breakthrough in understanding how bad drinking water and filth actually made people sick arrived when the French chemist Louis Pasteur developed the germ theory of disease. Pasteur (pas-TUHR) (1822–1895), who began studying fermentation for brewers in 1854, used a microscope to develop a simple test that brewers could use to monitor the fermentation process and avoid spoilage. He found that fermentation depended on the growth of living organisms and that the activity of these organisms could be suppressed by heating the beverage—a process that came to be called pasteurization, which he first implemented in the early 1860s. The breathtaking implication of this discovery was that specific diseases were caused by specific living organisms—germs—and that those organisms could be controlled.

By 1870 the work of Pasteur and others had demonstrated the general connection between germs and disease. When, in the middle of the 1870s, German country doctor Robert Koch (kawkh) and his coworkers developed pure cultures of harmful bacteria and described their life cycles, the dam broke. Over the next twenty years, researchers—mainly Germans—identified the organisms responsible for disease after disease. These discoveries led to the development of a number of effective vaccines, though some infections resisted treatment until scientists developed antibiotics in the middle of the next century.

Acceptance of germ theory brought about dramatic improvements in the deadly environment of hospitals and operating rooms (see Chapter 18). In 1865, when Pasteur showed that the air was full of bacteria, English surgeon Joseph Lister (1827–1912) immediately grasped the connection between aerial bacteria and the problem of wound infection. He reasoned that a chemical disinfectant applied to a wound dressing would "destroy the life of the floating..."
particles," by which he meant germs. Lister's antiseptic principle worked wonders. In the 1880s German surgeons developed the more sophisticated practice of sterilizing not only the wound but also everything—hands, instruments, clothing—that entered the operating room.

The achievements of the bacterial revolution coupled with the public health movement saved millions of lives, particularly after about 1880. Mortality rates began to decline dramatically in European countries (see Figure 22.1) as the awful death sentences of the past—diphtheria, typhoid, typhus, cholera, yellow fever—became vanishing diseases. City dwellers benefited especially from these developments. By 1910 a great silent revolution had occurred: the death rates for people of all ages in urban areas were generally no greater than those for people in rural areas, and sometimes they were lower.

**Improvements in Urban Planning**

In addition to public health improvements, more effective urban planning was a major key to a better quality of urban life in the nineteenth century. France took the lead in this area during the rule of Napoleon III (r. 1848–1870), who sought to promote the welfare of his subjects through government action. He believed that rebuilding much of Paris would provide employment, improve living conditions, limit the outbreak of cholera epidemics—and testify to the power and glory of his empire. In Baron Georges Haussmann (HOVS-muhn) (1809–1884), an aggressive, impatient Alsatian whom he placed in charge of Paris, Napoleon III found an authoritarian planner capable of bulldozing both buildings and opposition. In twenty years Paris was completely transformed (Map 22.2).

The Paris of 1850 was a labyrinth of narrow, dark streets, the results of desperate overcrowding and a lack of effective planning. More than one-third of the city's 1 million inhabitants lived in a central district not twice the size of New York's Central Park. Residents faced terrible conditions and extremely high death rates. The entire metropolis had few open spaces and only two public parks.

For two decades Haussmann and his fellow planners proceeded on many interrelated fronts. With a bold energy that often shocked their contemporaries, they razed old buildings in order to cut broad, straight
Rich and Poor and Those in Between

What did the emergence of urban industrial society mean for rich and poor and those in between?

As the quality of urban life improved across Europe, the class structure became more complex and diverse. Urban society featured many distinct social groups, all of which existed in a state of constant flux and competition. The gap between rich and poor remained enormous and quite traditional, but there were numerous gradations between the extremes.

The Distribution of Income

By 1850 at the latest, real wages—that is, wages received by workers adjusted for changes in the prices they paid—were rising for the mass of the population, and they continued to do so until 1914. The real wages of British workers, for example, almost doubled between 1850 and 1906. Similar increases occurred in continental countries as industrial development quickened after 1850. Ordinary people took a major step forward in the centuries-old battle against poverty, reinforcing efforts to improve many aspects of human existence.

Greater economic rewards for the average person did not eliminate hardship and poverty, however; nor did they make the wealth and income of the rich and the poor significantly more equal, as contemporary
treed-lined boulevards through the center of the city as well as in new quarters rising on the outskirts (see Map 22.2). These boulevards, designed in part to prevent the easy construction and defense of barricades by revolutionary crowds, permitted traffic to flow freely and afforded impressive vistas. Their creation also demolished some of the worst slums. New streets stimulated the construction of better housing, especially for the middle classes. Planners created small neighborhood parks and open spaces throughout the city and developed two very large parks suitable for all kinds of holiday activities—one on the affluent west side and one on the poor east side of the city. The city improved its sewers, and a system of aqueducts more than doubled the city's supply of clean, fresh water.

Rebuilding Paris provided a new model for urban planning and stimulated urban reform throughout Europe, particularly after 1870. In cities after city, public authorities mounted a coordinated attack on many of the interrelated problems of the urban environment. As in Paris, improvements in public health through better water supply and waste disposal often went hand in hand with new boulevard construction. Urban planners in cities such as Vienna and Cologne followed the Parisian example of tearing down old walled fortifications and replacing them with broad, circular boulevards on which they erected office buildings, town halls, theaters, opera houses, and museums. These ring roads and the new boulevards that radiated outward from the city center eased movement and encouraged urban expansion (see Map 22.2). Zoning expropriation laws, which allowed a majority of the owners of land in a given quarter of the city to impose major street or sanitation improvements on a reluctant minority, were an important mechanism of this new urban reform movement.

Public Transportation

The development of mass public transportation often accompanied urban planning, further enhancing living conditions. In the 1870s many European cities authorized private companies to operate horse-drawn streetcars, which had been developed in the United States, to carry riders along the growing number of major thoroughfares. Then in the 1890s the real revolution occurred: European countries adopted another American transit innovation, a streetcar that ran on the newly harnessed power of electricity.

Electric streetcars were cheaper, faster, more dependable, cleaner, and more comfortable than their horse-drawn counterparts. Workers, shoppers, and schoolchildren hopped on board during the workweek. On weekends and holidays, streetcars carried urban dwellers on happy outings to parks and the countryside, to racetracks and music halls. In 1886 the horse-drawn streetcars of Austria-Hungary, France, Germany, and Great Britain carried about 900 million riders per year. By 1910 electric streetcar systems in those four countries were carrying 6.7 billion riders.

Mass transit helped greatly in the struggle for decent housing. The new boulevards and horse-drawn streetcars facilitated a middle-class move to better and more spacious housing in the 1860s and 1870s; after 1890 electric streetcars meant people of even modest means could access new, improved housing. Though still densely populated, cities expanded and became less congested. In England in 1901, only 9 percent of the urban population was overcrowded in terms of the official definition of more than two persons per room. On the continent, many city governments in the early twentieth century built electric streetcar systems that provided transportation to new public and private housing developments for the working classes beyond the city limits. Suburban commuting was born.

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Greater economic rewards for the average person did not eliminate hardship and poverty, however; nor did they make the wealth and income of the rich and the poor significantly more equal, as contemporary
critics argued and economic historians have clearly demonstrated. The aristocracy—with imposing wealth, unrivaled social prestige, and substantial political influence—retained its position at the very top of the social ladder, followed closely by a new rich elite, composed mainly of the most successful business families from banking, industry, and large-scale commerce. In fact, the prominent families of the commercial elite tended to marry into the old aristocracy, to form a new upper class of at most 5 percent of the population. Much of the aristocracy welcomed this development. Having experienced a sharp decline in its relative income in the course of industrialization, the landed aristocracy had met big business coming up the stairscase and was often delighted to trade titles, country homes, and snobbish elegance for good, hard cash. Some of the best bargains were made through marriages to American heiresses. Correspondingly, wealthy aristocrats tended increasingly to exploit their agricultural and mineral resources as if they were business people.

Income inequality reflected social status. In almost every advanced country around 1900, the richest 5 percent of all households in the population received a third of all national income, and the richest 20 percent of households received from 50 to 60 percent of it. As a result, the lower 80 percent received only 40 to 50 percent of all income—less than the two richest classes. Moreover, the bottom 30 percent of all households received 10 percent or less of all income.

To understand the full significance of these statistics, one must realize that the middle classes were much smaller than they are today. In the nineteenth century they accounted for less than 20 percent of the population. Moreover, in the nineteenth century (and for centuries before as well) income taxes on the wealthy were light or nonexistent. Thus the gap between rich and poor remained enormous at the beginning of the twentieth century. Indeed, it was probably almost as great as it had been in the late nineteenth century, in the age of agriculture and aristocracy.

The great gap between rich and poor endured, in part, because industrial and urban development made society more diverse and classes less unified. (See “Primary Source 22.2: Apartment Living in Paris,” at right.) Society had not split into two sharply defined opposing classes, as Karl Marx had predicted (see Chapter 21). Instead, the economic specialization that enabled society to produce goods more effectively had created a remarkable variety of new social groups. There developed an almost unlimited range of jobs, skills, and earnings: one group or subclass blended into another in a complex, confusing hierarchy. Between the tiny elite of the very rich and the sizable mass of the dreadfully poor lived a range of subclasses, each filled with individuals struggling to rise or at least to hold their own in the social order. In this atmosphere of competition and hierarchy, neither the “middle class” nor the “working class” actually acted as a single unified force. Rather, the social and occupational hierarchy developed enormous variations, though the age-old pattern of great economic inequality remained firmly intact.

The People and Occupations of the Middle Classes

By the beginning of the twentieth century, the diversity and range within the urban middle class were striking. Indeed, it makes sense to replace the idea of a single “middle class” with a confederation of “middle classes” whose members engaged in occupations requiring mental, rather than physical, skill.

Below the wealthy top tier, the much larger, much less wealthy, and increasingly diversified middle class included moderately successful industrialists and merchants as well as professionals in law, business, and medicine. As industry and technology expanded in the nineteenth century, a growing demand developed for experts with specialized knowledge, and advanced education soared in importance among the middle classes. Engineering, for example, emerged from the world of skilled labor as a full-fledged profession with considerable prestige. Architects, chemists, accountants, and surveyors, to name only a few, first achieved professional standing in this period. They established criteria for advanced training and certification and banded together in organizations to promote and defend their interests.

Management of large public and private institutions also emerged as a kind of profession as governments provided more services and as very large corporations such as railroads managed ever-larger numbers of human and physical resources. Government officials and many private executives had specialized knowledge and the capacity to earn a good living. And they shared most of the values of the business-owning entrepreneurs and the older professionals.

Industrialization expanded and diversified the lower middle class. The number of independent, property-owning shopkeepers and small business people grew, and so did the number of white-collar employees—a mixed group of traveling salesmen, bookkeepers, store managers, and clerks who staffed the offices and branch stores of large corporations. White-collar employees owned little property and often earned no more than better-paid skilled or semiskilled workers. Yet white-collar workers were fiercely committed to the middle-class ideal of upward social mobility. The tie, the suit, the soft, clean hands that accompanied low-level retail and managerial work became important status symbols that set this group above those who earned a living through manual labor.
Apartment Living in Paris

This drawing shows a typical layout for a European city apartment building in about 1850.

EVALUATE THE EVIDENCE

1. Describe the inhabitants of each floor. How does the economic condition of the tenants differ from the 1st Étage (the equivalent of the American second floor) to the garret apartments on the top floor?

2. What does this drawing suggest about urban life in the nineteenth century? How might a sketch of a modern, urban American apartment building differ in terms of the types of people who reside in a single building?

Relatively well educated but without complex technical skills, many white-collar occupational groups strove to achieve professional standing and higher social status. Elementary school teachers largely succeeded in this effort. Frogs being miserably paid part-time workers in the early nineteenth century, teachers rode the wave of mass education to respectable middle-class status and income. Nurses also rose from the lower ranks of unskilled labor to precarious middle-class standing.

Dentistry was taken out of the hands of working-class barbers and placed in the hands of highly trained (and middle-class) professionals.

Middle-Class Culture and Values

Despite growing occupational diversity and conflicting interests, lifestyle preferences loosely united the European middle classes. Food, housing, clothes, and
behavior all expressed middle-class values and testified to the superior social standing of this group over the working classes.

Unlike the working classes, the middle classes had the money to eat well, and spent a substantial portion of their household budget on food and entertainment. They consumed meat in abundance: a well-off family might spend 10 percent of its annual income on meat and fully 25 percent on food and drink. The dinner party—a favored social occasion—boosted spending. A wealthy middle-class family might give a lavish party for eight to twelve almost every week, but even more modest households in the lower middle class did so once a month.

The middle-class wife could cope with this endless procession of meals, courses, and dishes because she had servants as well as money at her disposal. Indeed, the employment of at least one full-time maid to cook and clean was the clearest sign that a family had crossed the cultural divide separating the working classes from what some contemporary observers called the "servant-keeping classes." The greater a family's income, the greater the number of servants it employed. Servants absorbed about another 25 percent of income at all levels of the middle class.

Well fed and well served, by 1900 the middle classes were also well housed. Many prosperous families rented, rather than owned, their homes, complete with tiny rooms for servants under the eaves of the top floor. And, just as the aristocracy had long divided the year between palatial country estates and lavish townhouses during "the season," so the upper middle class purchased country places or built beach houses for weekend and summer use.

The middle classes paid great attention to outward appearances, especially their clothes. The factory, the sewing machine, and the department store had all helped reduce the cost and expand the variety of clothing. Middle-class women were particularly attentive to the dictates of fashion, though men also wore the now-appropriate business suit. (See "Living in the Past: Nineteenth-Century Women's Fashion," page 730.) Private coaches and carriages, expensive items in the city, further testified to rising social status.

Rich Europeans could devote more time to "culture" and leisure pursuits than less wealthy or well-established families. The keystones of culture and leisure were books, music, and travel. The long realistic novel, the heroic operas of composers Wagner and Verdi, the diligent striving of the dutiful daughter at the piano, and the packaged tour to a foreign country were all sources of middle-class pleasure.

In addition to their material tastes, the middle classes generally agreed upon a strict code of behavior and morality, which stressed hard work, self-discipline, and personal achievement. Middle-class social reform-
ers denounced drunkenness and gambling as vices and celebrated sexual purity and fidelity as virtues. Men and women who fell into crime or poverty were held responsible for their own circumstances. A stern sense of Christian morality, preached tirelessly by religious leaders, educators, and politicians, reaffirmed these values. The middle-class individual was supposed to know right from wrong and act accordingly.

**The People and Occupations of the Working Classes**

At the beginning of the twentieth century, about four out of five people belonged to the working classes—that is, people whose livelihoods depended primarily on physical labor and who did not employ domestic servants. Many of them were still small landowning peasants and hired farm hands, and this was especially the case in eastern Europe. In western and central Europe, however, the typical worker had left the land. By 1900 less than 8 percent of the people in Great Britain worked in agriculture, and in rapidly industrializing Germany only 25 percent were employed in agriculture and forestry. Even in less industrialized France, under 50 percent of the population worked the land.

The urban working classes were even less unified and homogeneous than the middle classes. First, economic development and increased specialization expanded the traditional range of working-class skills, earnings, and experiences. Meanwhile, the old sharp distinction between highly skilled artisans and unskilled manual workers gradually broke down. To be sure, highly skilled printers and masons as well as unskilled dockworkers and common laborers continued to exist. But between these extremes there appeared ever more semiskilled groups, including trained factory workers. In addition, skilled, semiskilled, and unskilled workers developed divergent lifestyles and cultural values. These differences contributed to a keen sense of social status and hierarchy within the working classes, creating great diversity and undermining the class unity predicted by Marx.

Highly skilled workers—about 15 percent of the working classes—became known as the **labor aristocracy**. They earned only about two-thirds of the income of the bottom ranks of the servant-keeping classes, but that was fully double the earnings of unskilled workers. The most “aristocratic” of these highly skilled workers were construction bosses and factory foremen, who had risen from the ranks and were fiercely proud of their achievement. The labor aristocracy also included members of the traditional highly skilled handicraft trades that had not been mechanized or placed in factories, like cabinetmakers, jewelers, and printers.

While the labor aristocracy enjoyed its exalted position, maintaining that status was by no means certain. Gradually, as factory production eliminated more
Living in the Past

Nineteenth-Century Women's Fashion

In the last third of the nineteenth century fashionable clothing, especially for middle-class women, became the first modern consumer industry, as consumers snapped up the constantly changing ready-to-wear goods sold by large department stores. Before the twentieth century, when society fragmented into many different groups expressing themselves in many clothing styles, clothing patterns focused mainly on perceived differences in class and gender. Most changes in women's fashion originated in Paris in the nineteenth century. The crinoline dresses from the 1850s and 1860s shown on this page were worn exclusively by aristocratic and wealthy middle-class women, initially in France, and then across the Western world. These expensive dresses, flawlessly tailored by skilled seamstresses, abounded in elaborate embroidery, rich velvety materials, and fancy accessories. The circular spread of the gowns was created by the crinoline, a slip with a metal hoop that held the skirt out on all sides. Underneath their dress, women wore a corset, the century's most characteristic women's undergarment, which was laced up tightly in back and which pressed unmercifully inward from the breasts to the hips.

By 1875, as shown in this painting of a middle-class interior (opposite, top left), the corset still bound a woman's frame, but the crinoline hoop had been replaced by the bustle, a cotton fan with steel reinforcement that pushed the dress out in back to exaggerate gender differences. Worn initially by the wealthy elite, the bustle became the standard for middle-class women when cheaper ready-to-wear versions became available throughout Europe in department stores or mail-order catalogues. Emulating the elite in style, conventional middle-class women shopped carefully, scouting for sales, and drew a boundary separating themselves from working-class women, who wore simple cotton clothes, just as the wealthy had tried to differentiate themselves from the middle class earlier in the century.

By century's end alternative styles of dress had emerged. The young middle-class Englishwoman in this 1893 photo (opposite, top right) has chosen a woman's tailored suit, the only major English innovation in nineteenth-century women's fashion. This alternative dress combined the tie, suit jacket, vest, and straw hat of male attire with typical feminine elements, such as the skirt and gloves. This practical, socially accepted dress appealed to the growing number of women in paid employment in the 1890s. By the early part of the twentieth century, the corset had given way entirely to the more flexible brassiere and the mainstream embrace of loose-fitting garments, as illustrated by this 1910 French advertisement (opposite, bottom right).

and more crafts, lower-paid, semiskilled factory workers replaced many skilled artisans. Traditional woodcarvers and watchmakers virtually disappeared, for example, as the making of furniture and timepieces now took place in factories. At the same time, industrialization opened new opportunities for new kinds of highly skilled workers, such as shipbuilders and railway locomotive engineers. Thus the labor elite remained in a state of flux, as individuals and whole crafts moved in and out of it.

To maintain this precarious standing, the upper working class adopted distinctive values and straitlaced, almost puritanical behavior. Like the middle classes, the labor aristocracy believed firmly in middle-
QUESTIONS FOR ANALYSIS

1. What does the image from 1859 tell you about the life of these women (their work, leisure activities, and so on)? What implications, if any, do you think the later styles shown here had for women’s lives? For class distinctions?

2. What does the impractical, restrictive clothing in these images reveal about society’s view of women during this period? What is the significance of the emergence of alternative styles of dress?

3. Historian Diana Crane has argued that women’s departure from a dominant style can be seen as a symbolic, nonverbal assertion of independence and equality with men. Do you agree? Did the greater freedom of movement in clothing in the twentieth century reflect the emerging emancipation of Western women? Or was the coquettish femininity of loose, flowing dresses only a repackaging of the dominant culture’s sharply defined gender boundaries?

Class morality and economic improvement. Families in the upper working class saved money regularly, worried about their children’s education, and valued good housing. Wives seldom sought employment outside the home. Despite these similarities, skilled workers viewed themselves not as aspirants to the middle class but as the pacesetters and natural leaders of all the working classes. Well aware of the degradation not so far below them, they practiced self-discipline and stern morality and generally frowned on heavy drinking and sexual permissiveness. As one German skilled worker somberly warned, “The path to the brothel leads through the tavern” and from there to drastic decline or total ruin.
Below the labor aristocracy stood the enormously complex world of hard work, composed of both semi-skilled and unskilled workers. Established construction workers — carpenters, bricklayers, pipe fitters — stood near the top of the semiskilled hierarchy, often flirting with (or sliding back from) the labor elite. A large number of the semiskilled were factory workers, who earned highly variable but relatively good wages. These workers included substantial numbers of unmarried women, who began to play an increasingly important role in the industrial labor force.

Below the semiskilled workers, a larger group of unskilled workers included day laborers such as longshoremen, wagon-driving teamsters, and “helpers” of all kinds. Many of these people had real skills and performed valuable services, but they were unorganized and divided, united only by the common fate of meager earnings and poor living conditions. The same lack of unity characterized street vendors and market people — these self-employed members of the lower working classes competed savagely with each other and with established shopkeepers of the lower middle class.

One of the largest components of the unskilled group was domestic servants, whose numbers grew steadily in the nineteenth century. In Great Britain, for example, one out of every seven employed persons in 1911 was a domestic servant. The great majority were women; indeed, one out of every three girls in Britain between the ages of fifteen and twenty worked as a domestic servant. Throughout Europe, many female domestics in the cities were recent migrants from rural areas. As in earlier times, domestic service meant hard work at low pay with limited personal independence and the danger of sexual exploitation. For the full-time general maid in a lower-middle-class family, an unending routine of babysitting, shopping, cooking, and cleaning defined a lengthy working day. In the wealthiest households, the serving girl was at the bottom of a rigid hierarchy of status-conscious butlers and housekeepers.

Nonetheless, domestic service had real attractions for young women from rural areas who had few specialized skills. Marriage prospects were better, or at least more varied, in the city than back home. And though wages were low, they were higher and more regular than in hard agricultural work — which was being replaced by mechanization, at any rate. Finally, as one London observer noted, young girls and other migrants from the countryside were drawn to the city by the contagion of numbers, the sense of something going on, the theaters and the music halls, the brightly lighted streets and busy crowds — all, in short, that makes the difference between the Mile End fair on a Saturday night, and a dark and muddy country lane, with no glimmer of gas and with nothing to do.”

Many young domestics made the successful transition to working-class wife and mother. Yet with an unskilled or unemployed husband, a growing family, and limited household income, many working-class wives had to join the broad ranks of working women in the sweated industries. These industries expanded rapidly after 1850 and resembled the old putting-out and cottage industries of earlier times (see Chapter 17). The women normally worked at home and were paid by the piece, not by the hour. They and their young children who helped them earned pitiful wages and lacked any job security. Women decorated dishes of embroidered linens, took in laundry for washing and ironing, or made clothing, especially after the advent of the sewing machine. An army of poor women, usually working at home, accounted for many of the inexpensive ready-made clothes displayed on department store racks and in tiny shops.

**Working-Class Leisure and Religion**

Notwithstanding hard physical labor and lack of wealth, the urban working classes sought fun and recreation, and they found both. Across the face of Europe, drinking remained unquestionably the favorite leisure-time activity of working people. For many middle-class moralists, as well as moralizing historians since, love of drink was the curse of the modern age — a sign of social dislocation and popular suffering. Certainly, drinking was deadly serious business. One English slum dweller recalled that “drunkenness was by far the commonest cause of dispute and misery in working class homes. On account of it one saw many a decent family drift down through poverty into total want.”

Generally, however, heavy problem drinking declined in the late nineteenth century as it became less socially acceptable. This decline reflected in part the moral leadership of the labor aristocracy. At the same time, drinking became more publicly acceptable. Cafés and pubs became increasingly bright, friendly places. Working-class political activities, both moderate and radical, were also concentrated in taverns and pubs. Moreover, social drinking in public places by married couples and sweethearts became an accepted and widespread practice for the first time. This greater participation by women undoubtedly helped civilize the world of drink and hard liquor.

The two other leisure-time passions of working-class culture were sports and music halls. “Cruel sports,” such as bullbaiting and cockfighting, had greatly declined throughout Europe by the late nineteenth cent-
Theorized spectator sports filled their place; horse racing and soccer were the most popular. Working people gambled on sports events, and for many a working person a desire to decipher racing forms provided a powerful incentive toward literacy. Music halls and vaudeville theaters, the working-class counterparts of middle-class opera and classical theater, were enormously popular throughout Europe. In 1900 London had more than fifty such halls and theaters. Music hall audiences included men and women, which may account for the fact that drunkenness, premarital sex, marital difficulties, and mothers-in-law were all favorite themes of broad jokes and bittersweet songs.

In more serious moments, religion continued to provide working people with solace and meaning. The eighteenth-century vitality of popular religion in Catholic countries and the Protestant rejuvination exemplified by German Pietism and English Methodism (see Chapter 18) carried over into the nineteenth century. Indeed, many historians see the early nineteenth century as an age of religious revival. Yet historians recognize that by the last few decades of the nineteenth century, a considerable decline in both church attendance and church donations had occurred in most European countries. And it seems clear that this decline was greater for the urban working classes than for their rural counterparts or for the middle classes.

Why did working-class church attendance decline? On one hand, the construction of churches failed to keep up with the rapid growth of urban population, especially in new working-class neighborhoods. On the other, throughout the nineteenth century workers saw Catholic and Protestant churches as conservative institutions that defended status quo politics, hierarchical social order, and middle-class morality. Socialist political parties, in particular, attacked organized religion as a pillar of bourgeois society; and as the working classes became more politically conscious, they tended to see established churches as allied with their political opponents. In addition, religion underwent a process historians call "feminization": in the working and middle classes alike, women were more pious and attended service more regularly than men. Urban workingmen in particular developed vaguely anticlerical attitudes, even though they remained neutral or positive toward religion.

The pattern was different in the United States, where most nineteenth-century churches also preached social conservatism. But because church and state had always been separate and because a host of denominations and even different religions competed for members, working people identified churches much less with the political and social status quo. Instead, individual churches in the United States were often closely identified with an ethnic group rather than a social class, and churches thrived, in part, as a means of asserting ethnic identity. This same process occurred in Europe if the church or synagogue had never been linked to the state and served as a focus for ethnic cohesion. Irish Catholic churches in Protestant Britain, Catholic churches in partitioned Polish lands, and Jewish synagogues in Russia were outstanding examples.
Changing Family Lifestyles
How did urbanization affect family life and gender roles?

By the 1850s the family had stabilized considerably after the disruption of the late eighteenth and early nineteenth centuries. With the consolidation caused by industrialization and urbanization, the growing middle classes created a distinctive middle-class lifestyle, which set them off from peasants, workers, and the aristocracy. New ideas about courtship and marriage, family and gender roles, homemaking and child rearing all expressed middle-class norms and values in ways that would have a profound impact on family life in the century to come. Changes in family life affected both men and women and all social classes, but to varying degrees. Leading a middle-class lifestyle was prohibitively expensive for workers and peasants, and middle-class family values at first had little relevance for their lives. Yet as the nineteenth century drew to a close, the middle-class lifestyle increasingly became the norm for all classes.

Middle-Class Marriage and Courtship Rituals

Rather than marry for convenience, or for economic or social reasons—as was still common among workers, peasants, and aristocrats—by the 1850s the middle-class couple was supposed to meet, court, fall deeply in love, and join for life because of a shared emotional bond. Of course, economic considerations in marriage by no means disappeared. But an entire culture of romantic love—popularized in advice manuals, popular fiction, and art, and practiced in courtship rituals, weddings, and married life—now surrounded the middle-class couple with a tender emotional charge. The growing popularity among all classes toward the end of the nineteenth century of what historians call companionate marriage underscores the way historical contexts influence human emotions and behaviors.

Strict rules for courtship and engagement enshrined in the concept of falling in love ensured that middle-class individuals would make an appropriate match. Parents, chaperones, and the general public closely guarded the boundary between courtship and sex, between the proper and the improper. Young couples were seldom alone before they became engaged, and people rarely paired off with someone from an inappropriate class background. Premarital sex was taboo for women, though men might experiment, a double standard that expressed middle-class assumptions about sexual morality and especially women’s virginity before marriage.

Engagement also followed a complicated set of rules and rituals. Secret engagements led to public announcements, and then the couple could appear together, though only with chaperones when in potentially delicate situations. They might walk arm in arm, but custom placed strict limits on physical intimacy. A couple might find ways to experiment with sexual behaviors, but only in secret—which confirmed the special feelings of “true love” between the couple.

Marriage had its own set of rules. Usually a middle-class man could marry only if he could support a wife, children, and a servant. He was supposed to be fairly prosperous and well established in his career. As a result, some middle-class men never married, because they could not afford it. These customs created special difficulties for young middle-class women, who could rarely pursue an independent career or acquire a home without a husband. The system encouraged mixed-age marriages. A new husband was typically much older than his young wife, who usually had no career and entered marriage directly out of her parents’ home or perhaps a girl’s finishing school. She would have had little experience with the realities of adult life.

Love meant something different to men and women. Trained to fall passionately in love with “Mr. Right,” young women equated marriage with emotional intensity. Men, on the other hand, were supposed to “find a wife”: they took a more active but dispassionate role in courtship. Since women generally were quite young, the man was encouraged to see himself as the protector of a young and fragile creature. In short, the typical middle-class marriage was more similar to a child-parent relationship than a partnership of equals, a situation finely portrayed in Henrik Ibsen’s noted play A Doll’s House (1879). The inequality of marriage was codified in European legal systems that, with rare exceptions, placed property ownership in the hands of the husband.

Middle- and Working-Class Sexuality

A double standard in sexual relations paralleled the gender inequalities built into middle-class standards of love and marriage. Middle-class moralists of all stripes cast men as aggressively sexual creatures, while women—the “angel in the house”—were supposed to be pure and chaste and act as a brake on male desire. Contemporary science legitimized this double standard. According to late-nineteenth-century physicians,
men, easily aroused by the sight of a wrist or ankle, fell prey to their raging biological drives, while respectable women were supposedly uninterested in sex by nature.

Middle-class moralists assumed that men would enter marriage with some sexual experience, though this was unthinkable for a middle-class woman. When middle-class men did seek premarital sex, middle-class women were off limits. Instead, bourgeois men took advantage of their class status and sought lower-class women, domestic servants, or prostitutes. If a young middle-class woman had experimented with or even was suspected of having had premarital sex, her chances for an acceptable marriage fell dramatically. (See "Primary Source 22.3: Stephan Zweig on Middle-Class Youth and Sexuality," page 736.)

The sexual standards of the working classes stood in marked contrast to these norms early in the nineteenth century, but that changed over time. Premarital sex for both men and women was common and more acceptable among the working class. In the first half of the nineteenth century, among the lower classes, about one-third of the births in many large European cities occurred outside of wedlock. The second half of the century saw the reversal of this high rate of illegitimacy: in western, northern, and central Europe, more babies were born to married mothers. Young, unmarried workers were probably engaging in as much sexual activity as their parents and grandparents who had created the illegitimacy explosion of 1750 to 1850 (see Chapter 18). But in the later part of the nineteenth century, pregnancy for a young single woman, which a couple might see as the natural consequence of a serious relationship, led increasingly to marriage and the establishment of a two-parent household. Indeed, one in three working-class women were pregnant when they married. This important development reflected the spread of middle-class ideals of family respectability among the working classes, as well as their gradual economic improvement. Romantic love held working-class families together, and marriage was less of an economic challenge. The urban working-class couple of the late nineteenth century thus became more stable, and that stability strengthened the family as an institution.

Prostitution

In the late nineteenth century prostitution was legal in much of Europe. In Italy, France, Great Britain, and much of Germany, the state licensed brothels and registered individual prostitutes. In Paris, 155,000 women were registered as prostitutes between 1871 and 1903, and 750,000 others were suspected of prostitution in the same years. In Berlin, in 1909 alone, the authorities registered over 40,000 prostitutes. The totals are probably low, since most women in the sex trade tried to avoid government registration.

In streets, dance halls, and pubs across Europe, young working-class women used prostitution as a source of second income or as a way to weather a period of unemployment. Prostitutes generally serviced lower-class men, soldiers, and sailors, though middle- and upper-class men looking to "sow wild oats" also paid for sexual encounters. Streetwalking offered women some measure of financial independence, but the work was dangerous. Violence and rape, police harassment, and venereal disease were commonplace hazards.

Prostitutes clearly transgressed middle-class ideals of feminine respectability, but among the working classes prostitution was tolerated as more-or-less acceptable work of a temporary nature. Like domestic service, prostitution was a stage of life, not permanent employment. Practicing it for a while in their twenties, many women went on to marry (or live with) men of their own class and establish homes and families.

As middle-class family values became increasingly prominent after the 1860s, prostitution generated great concern among social reformers. The prostitute—immoral, lascivious, and unhealthy in middle-class eyes—served as the mirror image of the respectable middle-class woman. Moreover, authorities blamed prostitutes for spreading crime and disease, particularly syphilis. Before the discovery of penicillin, syphilis was indeed a terrifying and widespread affliction. Its painful symptoms led to physical and mental decline and often death, and medical treatment was embarrassing and for the most part ineffective.

As general concerns with public health gained publicity, state and city authorities across Europe subjected prostitutes—in their eyes the vector of contagious disease—to increased surveillance. The British Contagious Diseases Acts, in force between 1864 and 1886, exemplified the trend. Under these acts, special plainclothes policemen required women identified as "common prostitutes" to undergo biweekly medical exams. If they showed signs of venereal disease, they were interned in a "lock hospital" and forced to undergo treatment; when the outward signs of disease went away, they were released.

The Contagious Diseases Acts were controversial from the start. A determined middle-class feminist campaign against the policy, led by Josephine Butler and the Ladies National Association, loudly proclaimed that the acts physically abused poor women, violated their constitutional rights, and legitimized male vice. Under pressure, Parliament repealed the laws in 1886. Yet heavy-handed government regulation had devastated the informality of working-class prostitution. Now branded as "registered girls,"
Growing up in Vienna in a prosperous Jewish family, Stephan Zweig (1881–1942) became an influential voice calling for humanitarian values and international culture in early-twentieth-century Europe. Passionately opposed to the First World War, Zweig wrote poetry, plays, and novels. But he was most famous for his biographies: shrewd psychological portraits of historical figures such as Magellan and Marie Antoinette. After Hitler came to power in 1933, Zweig lived in exile until his death in 1942. Zweig’s last work was The World of Yesterday (1943), one of the truly fascinating autobiographies of the twentieth century. In the following passage, Zweig recalls the romantic experiences and sexual separation of middle-class youth before the First World War.

During the eight years of our higher schooling [beyond grade school], something had occurred which was of great importance to each one of us: we ten-year-olds had grown into virile young men of sixteen, seventeen, and eighteen, and Nature began to assert its rights. . . . It did not take us long to discover that those authorities in whom we had previously confided—school, family, and public morals—manifested an astonishing insincerity in this matter of sex. But what is more, they also demanded secrecy and reserve from us in this connection. . . .

This “social morality,” which on the one hand privately presupposed the existence of sexuality and its natural course, but on the other would not recognize it openly at any price, was doubly deceitful. While it winked one eye at a young man and even encouraged him with the other “to sow his wild oats,” as the kindly language of the home put it, in the case of a woman it studiously shut both eyes and acted as if it were blind. That a man could experience desires, and was permitted to experience them, was silently admitted by custom. But to admit frankly that a woman could be subject to similar desires, or that creation for its eternal purposes also required a female polarity, would have transgressed the conception of the “sanctity of womanhood.” In the pre-Freudian era, therefore, the axiom was agreed upon that a female person could have no physical desires as long as they had not been awakened by man, and that, obviously, was officially permitted only in marriage. But even in those moral times, in Vienna in particular, the air was full of dangerous erotic infection, and a girl of good family had to live in a completely sterilized atmosphere, from the day of her birth until the day when she left the altar on her husband’s arm. In order to protect young girls, they were not left alone for a single moment. . . . Every book which they read was inspected, and above all else, young girls were constantly kept busy to divert their attention from any possible dangerous thoughts. They had to practise the piano, learn singing and drawing, foreign languages, and the history of literature and art. They were educated and overeducated. But while the aim was to make them as educated and as socially correct as possible, at the same time society anxiously took great pains that they should remain innocent of all natural things to a degree unthinkable today. A young girl of good family was not allowed to have any idea of how the male body was formed, or to know how children came into the world, for the angel was to enter into matrimony not only physically untouched, but completely “pure” spiritually as well. “Good breeding” for a young girl of that time, was identical with ignorance of life; and this ignorance oftentimes lasted for the rest of their lives. . . .

What possibilities actually existed for a young man of the middle-class world? In all the others, in the so-called lower classes, the problem was no problem at all. . . . In most of our Alpine villages the number of natural children greatly exceeded the legitimate ones. Among the proletariat, the worker, before he could get married, lived with another worker in free love. . . . It was only in our middle-class society that such a remedy as an early marriage was scorned. . . . And so there was an artificial interval of six, eight, or ten years between actual manhood and manhood as society accepted it; and in this interval the young man had to take care of his own “affairs” or adventures.

Those days did not give him too many opportunities. Only a very few particularly rich young men could afford the luxury of keeping a mistress, that is, taking an apartment and paying her expenses. And only a very few fortunate young men achieved the literary ideal of love of the times—the only one which it was permitted to describe in novels—an affair with a married woman. The others helped themselves for the most part with shopgirls and waitresses, and this offered little inner satisfaction. . . . But, generally speaking, prostitution was still the foundation of the erotic life outside of marriage; in a certain sense it constituted a dark underground vault over which rose the gorgeous structure of middle-class society with its faultless, radiant façade.

The present generation has hardly any idea of the gigantic extent of prostitution in Europe before the [First] World War. Whereas today it is as rare to meet a prostitute on the streets of a big city as it is to meet a wagon in
prostitutes experienced new forms of public humiliation, and the trade was increasingly controlled by male pimps rather than by the women themselves. Prostitution had never been safe, but it had been accepted, at least among the working classes. Prostitutes were now stigmatized as social and sexual outsiders.

Separate Spheres and the Importance of Homemaking

After 1850 the work of wives became increasingly distinct and separate from that of their husbands in all classes. The preindustrial pattern among both peasants and cottage workers, in which husbands and wives both worked and shared basic household duties, became less common. In wealthier homes, this change was particularly dramatic. The good middle-class family man earned the wages to support the household; the public world of work, education, and politics was male space. Respectable middle-class women did not work outside the home and rarely even traveled alone in public. Working-class women, including servants and prostitutes, were more visible in public places, but if a middle-class woman went out without a male escort she might be accused of low morals or character. Thus many historians have stressed that the societal ideal in nineteenth-century Europe became a strict division of labor by gender within rigidly constructed separate spheres: the wife as mother and homemaker, the husband as wage earner and breadwinner.

For the middle classes, the single-family home, a symbol of middle-class status and a sanctuary from the callous outside world of competitive capitalism, was central to the notion of separate spheres. Middle-class floor plans grew to include separate sleeping rooms for parents and each family member—unheard of among the lower classes—as well as a special drawing room (or parlor), used to entertain guests. Plump sofas, bric-a-brac, and souvenirs graced domestic interiors; curtains of heavy red velvet and colorful silks draped doors and windows. Such ostentatious displays were too expensive for the working classes, who made up 80 percent of the population.

At the heart of the middle-class home stood the woman: notions of femininity, motherhood, and private life came together in the ideal of domestic space. Middle-class women were spared the many burdens of the outside world, while lower-class servants ensured that they had free time to turn the private sphere into a domestic refuge of love and privacy. Numerous middle-class housekeeping manuals made the wife’s responsibilities quite clear, as this Swedish handbook

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**EVALUATE THE EVIDENCE**

1. According to Zweig, how did the sex lives of young middle-class women and young middle-class men differ? What accounted for these differences?
2. What were the differences between the sex lives of the middle class and those of the “so-called lower classes”? What was Zweig’s opinion of these differences?
3. Zweig ends with a value judgment: “It was a bad time for youth.” Do you agree or disagree? Why?

Christmas and the Sentimental Pleasures of the Middle-Class Home  

Aptly portrayed in this sentimental painting by English genre artist Walter Dendy Sadler, the Victorian Christmas celebrated the family values and lifestyles of the middle classes at their most expressive. His clichéd portrait of a wealthy middle-class family holiday — with holly adorning the walls, mistletoe hanging above the fireplace, children singing carols with their parents, and contented grandparents sitting by a warm fire — captures the intimacy and love that increasingly bound together middle-class and working-class families alike during the nineteenth century. Titled *Home Sweet Home* and released for commercial reproduction and sale around 1900, prints of this image of domestic bliss no doubt adorned the walls of many middle-class parlors like the one shown in the painting. (Private Collection/Photo © Christie’s Images/The Bridgeman Art Library)

From 1889 suggests: “A man who spends most of his day away from the family, who has to work outside the home, counts on finding a restful and refreshing atmosphere when he returns home, and sometimes even a little merriment or a surprise. . . . It is his wife’s duty to ensure that he is not disappointed in his expectation. She must do her utmost to make his stay at home as pleasant as possible; she can thus continue to keep her influence over him and retain his affection undiminished.”

By 1900 working-class families had adopted many middle-class values, but they did not have the means to fully realize the ideal of separate spheres. Women were the primary homemakers, and, as in the upper classes, men did little or no domestic labor. But many working-class women also made a monetary contribution to family income by taking in a boarder, doing piecework at home in the sweatshops (see page 732), or getting an outside job. While middle-class family life centered on an ample daily meal, working-class women struggled to put sufficient food on the table. Working women worked to create a homelike environment that at least resembled that of the middle class — cleaning house, collecting trinkets, and decorating domestic interiors — but working men often preferred to spend time in the local pub with workmates, rather than come home. Indeed, alcoholism and domestic violence afflicted many working-class families, even as they worked to build a relationship based on romantic love.

Feminist historians have often criticized the middle-class ideal of separate spheres because it restricted women’s educational and employment opportunities, and the women’s rights movement that emerged in the late nineteenth century certainly challenged the limi-
Child Rearing

Another striking sign of deepening emotional ties within the family was a growing emphasis on the love and concern that mothers gave their infants. Early emotional bonding and a willingness to make real sacrifices for the welfare of the infant became increasingly important among the comfortable classes by the end of the eighteenth century, though the ordinary mother of modest means adopted new attitudes only as the nineteenth century progressed. The baby became more important, and women became better mothers.

The surge of maternal feeling was shaped by and reflected in a wave of specialized books on child rearing and infant hygiene, such as French family reformer Gustav Droz's phenomenally successful book *Papa, Mama, and Baby*, which went through 121 editions between 1866 and 1884. Droz urged fathers to become affectionate toward their children and pitied those "who do not know how to roll around on the carpet, play at being a horse and a great wolf, and undress their baby." Following expert advice, mothers increasingly breast-fed their infants, rather than paying wet nurses to do so. Breast-feeding involved sacrifice—a temporary loss of freedom, if nothing else. Yet when there was no good alternative to mother's milk, it saved lives. Another sign, from France, of increased parental affection is that fewer illegitimate babies were abandoned as foundlings after about 1850. Moreover, the practice of swaddling disappeared completely. Instead, ordinary mothers allowed their babies freedom of movement and delighted in their spontaneity.

The loving care lavished on infants was matched by greater concern for older children and adolescents. They, too, were wrapped in the strong emotional ties of a more intimate and protective family. For one thing, European women began to limit the number of children they bore in order to care adequately for those they had. By the end of the nineteenth century, the birthrate was declining across Europe (Figure 22.2), and it continued to do so until after World War II. The Englishwoman who married in the 1860s, for example, had an average of about six children; her daughter marrying in the 1890s had only four; and her granddaughter marrying in the 1920s had only two or possibly three.

Figure 22.2 The Decline of Birthrates in England and Wales, France, Germany, and Sweden, 1840–1913 Women had fewer babies for a variety of reasons, including the fact that their children were increasingly less likely to die before reaching adulthood. How does this compare with Figure 22.1?
The most important reason for this revolutionary reduction in family size, in which the comfortable and well-educated classes took the lead, was parents' desire to improve their economic and social position and that of their children. Children were no longer an economic asset in the late nineteenth century. By having fewer youngsters, parents could give those they had valuable advantages, from music lessons and summer vacations to long, expensive university educations and suitable dowries. A young German skilled worker with only one child spoke for many in his class when he said, "We want to get ahead, and our daughter should have things better than my wife and sisters did."11 Thus the growing tendency of couples in the late nineteenth century to use a variety of contraceptive methods—the rhythm method, the withdrawal method, and mechanical devices, including since the 1840s condoms and diaphragms made of vulcanized rubber—reflected increased concern for children.

In middle-class households, parents expended considerable effort to ensure that they raised their children according to prevailing family values. Indeed, many parents, especially in the middle classes, probably became too concerned about their children, unwittingly subjecting them to an emotional pressure cooker of almost unbearable intensity. Professional family experts, including teachers, doctors, and reformers like Droz, produced a vast popular literature on child rearing that encouraged parents to focus on developing their children's self-control, self-fulfillment, and sense of Christian morality. Family specialists recommended against corporal punishment—still common in worker and peasant households—but even though they typically escaped beatings, the children of the wealthy grew up under constant observation and discipline, a style of parenting designed to teach the self-control necessary for adult success. Parents carefully monitored their children's sexual behavior, and masturbation—according to one expert "the most shameful and terrible of all vices"—was of particular concern.12 (See "Primary Source 22.3: Stephan Zweig on Middle-Class Youth and Sexuality," page 736.)

Attempts to repress the child's sexuality generated unhealthy tension, often made worse by the rigid division of gender roles within the family. While family experts lauded parental love, and especially love between mother and child, they believed that relations between father and child were troubled by a lack of emotional bonding. At work all day, the father came home a stranger to his offspring; his world of business was far removed from the maternal world of spontaneous affection. Moreover, the father set demanding rules, often expecting the child to succeed where he himself had failed and making his love conditional on achievement. This kind of distance was the case among mothers as well as fathers in the wealthiest families. Domestic servants, nannies, and tutors did much of the work of child rearing; parents saw their children only over dinner, or on special occasions like birthdays or holidays.

The children of the working classes probably had more avenues of escape from such tensions than did those of the middle classes. Unlike their middle-class counterparts, who remained economically dependent on their families until a long education was finished or a proper marriage secured, working-class boys and girls went to work when they reached adolescence. Earning wages on their own, by the time they were sixteen or seventeen they could bargain with their parents for greater independence within the household. If they were unsuccessful in these negotiations, they could and did leave home to live cheaply as paying lodgers in other working-class homes. Not until the twentieth century could middle-class youths be equally free to break away from the family when emotional ties became oppressive.

The Feminist Movement

The ideal of separate spheres and the rigid gender division of labor meant that middle-class women faced great obstacles when they needed—or wanted—to move into the man's world of paid employment outside the home. Married women were subordinated to their husbands by law and lacked many basic legal rights. In England, a wife had no legal identity and hence no right to own property in her own name. Even the wages she might earn belonged to her husband. In France, the Napoleonic Code (see Chapter 19) enshrined the principle of female subordination and gave the wife few legal rights regarding property, divorce, and custody of the children.

Facing discrimination in education and employment and suffering from a lack of legal rights, some women rebelled and began the long-continuing fight for equality of the sexes and the rights of women. Their struggle proceeded on two main paths. First, following in the steps of women such as Mary Wollstonecraft (see Chapter 19), organizations founded by middle-class feminists campaigned for equal legal rights for women as well as access to higher education and professional employment. Middle-class feminists argued that unmarried women and middle-class widows with inadequate incomes simply had to have more opportunities to support themselves. Second, they also recognized that paid (as opposed to unpaid) work could relieve the monotony that some women found in their sheltered middle-class existence and add greater meaning to their lives. In the late nineteenth century these organizations scored some sig-
First-Wave Feminists in Action

Britons were shocked by the spectacle of police arresting suffragettes during their demonstrations to win the vote for women. Public demonstrations and the aggressive physical restraint used on resisters women violated middle-class ideals of feminine passivity; the notion of separate spheres, which relegated women to the home; and the "proper" distance between the sexes. The leaders of the suffrage movement were quick to capitalize on this perceived outrage. This poster shows police manhandling a woman during the "Black Friday" suffragette demonstration in November 1910, when London police arrested two hundred protesters. (© Museum of London)

VOTES FOR WOMEN.

The Women's Social and Political Union.

Head Office: 4, CLEMENTS INN, STRAND, W.C.

Telegraphic Address: "Wespest, London.

President and Gen. Secretary—Mrs. PANKHURST.

Organizing Secretary—MRS. CHRISTABEL PANKHURST, LL.B.

Inquiries—Votes for Women.

Office—Barclay & Co., 21, Fleet Street, E.C.

Colours—Purple, White, and Green.

PLAIN FACTS ABOUT THE SUFFRAGETTE DEPUTATIONS.

"A policeman struck her with all his force and she fell to the ground. . . . Then a tall, grey-headed man with a silk hat was seen fighting to protect her, but three or four police seized hold of him and bundled him away."

Electors! Before you decide how you are going to vote look at this picture. Read the story which it tells. Then consider what is to be done by yourself as a British citizen to stop the Government's war upon women, who are demanding votes for taxpayers. Consider what can be done by you as a voter to make an end to this scandal, which is bringing disgrace on the name of your country in the eyes of the civilized world.

Significant victories, such as the 1882 law giving English married women full property rights. More women gradually found professional and white-collar employment, especially after about 1880, in fields such as teaching, nursing, and social work.

Progress toward women's rights was slow and hard-won. In Britain, the women's suffrage movement mounted a militant struggle for the right to vote, particularly in the decade before World War I. Inspired by the slogan "Deeds Not Words," "suffragettes" marched in public demonstrations, heckled members of Parliament, and slashed paintings in London's National Gallery. Jailed for political activities, they went on highly publicized hunger strikes. Yet conservatives dismissed what they called "the shrieking sisterhood," and British women received the vote only in 1919.

In Germany before 1900, women were not admitted as fully registered students at a single university. Determined pioneers had to fight with tremendous fortitude to break through sexist barriers to advanced education and subsequent professional employment. (See "Individuals in Society: Franziska Tiburtius," page 742.) By 1913 the Federation of German Women's Association, an umbrella organization for regional feminist groups, had some 470,000 members. Their protests had a direct impact on the revised German Civil Code of 1906, which granted women substantial gains in family law and property rights.

Women inspired by utopian and especially Marxist socialism (see Chapter 21) blazed a second path. Often scorning the reform programs of middle-class feminists, socialist women leaders argued that the liberation of working-class women would come only with the liberation of the entire working class through revolution. In the meantime, they championed the cause of working women and won some practical improvements, especially in Germany, where the socialist movement was most effectively organized. In a general way, these different approaches to women's issues reflected the diversity of classes in urban society.
INDIVIDUALS IN SOCIETY

Franziska Tiburtius

Why did a small number of women in the late nineteenth century brave great odds and embark on professional careers? And how did a few of them manage to reach their objectives? The career and personal reflections of Franziska Tiburtius (tigh-bur-TEE-uh), a pioneer in German medicine, suggest that talent, determination, and economic necessity were critical ingredients to both the attempt and the success.*

Like many women of her time who studied and pursued professional careers, Franziska Tiburtius (1843–1927) was born into a property-owning family of modest means. The youngest of nine children growing up on a small estate in northeastern Germany, the sensitive child wilted under a harsh governess but flowered with a caring teacher and became an excellent student. Graduating at sixteen and needing to support herself, Tiburtius had few opportunities. A young woman from a "proper" background could work as a governess or teacher without losing her respectability and spoiling her matrimonial prospects, but that was about it. She tried both avenues. Working for six years as a governess in a noble family and no doubt learning that poverty was often one’s fate in this genteel profession, she then turned to teaching. Called home from her studies in Britain in 1871 to care for her brother, who had contracted typhus as a field doctor in the Franco-Prussian War, she found her calling. She decided to become a medical doctor.

Supported by her family, Tiburtius’s decision was truly audacious. In all Europe, only the University of Zurich accepted female students. Moreover, if it became known that she had studied medicine and failed, she would probably never get a job as a teacher. No parent would entrust a daughter to an emancipated radical who had carved up dead bodies. Although the male students at the university sometimes harassed the female ones with crude pranks, Tiburtius thrived. The revolution of the microscope and the discovery of microorganisms thrilled Zurich, and she was fascinated by her studies. She became close friends with a fellow female student from Germany, Emilie Lehms, with whom she would form a lifelong partnership in medicine. She did her internships with families of cottage workers around Zurich and loved her work.

Graduating at age thirty-three in 1876, Tiburtius went to stay with her doctor brother in Berlin. Though well qualified to practice, she was blocked by pervasive discrimination. Not permitted to take the state medical exams, she could practice only as an unregulated (and unprofessional) "natural healer." But after persistent fighting with the bureaucrats, she was able to display her diploma and practice as "Franziska Tiburtius, M.D., University of Zurich."

Soon Tiburtius and Lehms realized their dream and opened a clinic. Subsidized by a wealthy industrialist, they focused on treating women factory workers. The clinic filled a great need and was soon treating many patients. A room with beds for extremely sick women was later expanded into a second clinic. Tiburtius and Lehms became famous. For fifteen years, they were the only women doctors in all of Berlin and inspired a new generation of women. Though they added the wealthy to their thriving practice, they always concentrated on the poor, providing them with subsidized and up-to-date treatment. Talented, determined, and working with her partner, Tiburtius experienced fully the joys of personal achievement and useful service. Above all, Tiburtius overcame the tremendous barriers raised up against women seeking higher education and professional careers, providing an inspiring model for those who dared to follow.

QUESTIONS FOR ANALYSIS

1. Analyze Franziska Tiburtius's life. What lessons do you draw from it? How do you account for her bold action and success?

2. In what ways was Tiburtius's career related to improvements in health in urban society and to the expansion of the professions?

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Science and Thought

How and why did intellectual life change in this period?

Major changes in Western science and thought accompanied the emergence of urban society. Two aspects of these complex intellectual developments stand out as especially significant. First, scientific knowledge in many areas expanded rapidly. Breakthroughs in chemistry, physics, and electricity profoundly influenced the Western worldview and spurred the creation of new products and whole industries. The natural and social sciences were also established as highly respected fields of study. Second, between about the 1840s and the 1890s European literature underwent a shift from soaring romanticism to tough-minded realism.

The Triumph of Science in Industry

As the pace of scientific advancements quickened and resulted in greater practical benefits, science exercised growing influence on human thought. The intellectual achievements of the Scientific Revolution (see Chapter 16) had resulted in few such benefits, and theoretical knowledge had also played a relatively small role in the Industrial Revolution in England (see Chapter 20). But breakthroughs in industrial technology in the late eighteenth century enormously stimulated basic scientific inquiry as researchers sought to explain theoretically how such things as steam engines and blast furnaces actually worked. The result was an explosive growth of fundamental scientific discoveries from the 1830s onward. In contrast to earlier periods, these theoretical discoveries were increasingly transformed into material improvements for the general population.

A perfect example of the translation of better scientific knowledge into practical human benefits was the work of Louis Pasteur and his followers in biology and the medical sciences (see page 723). Another was the development of the branch of physics known as thermodynamics. Building on Isaac Newton’s laws of mechanics and on studies of steam engines, thermodynamics investigated the relationship between heat and mechanical energy. The law of conservation of energy held that different forms of energy—such as heat, electricity, and magnetism—could be converted but neither created nor destroyed. By midcentury, physicists had formulated the fundamental laws of thermodynamics, which were then applied to mechanical engineering, chemical processes, and many other fields.

Chemistry and electricity were two other fields characterized by extremely rapid scientific progress.

And in both fields, “science was put in the service of industry,” as the influential economist Alfred Marshall (1842–1924) argued at the time. Chemists devised ways of measuring the atomic weight of different elements, and in 1869 the Russian chemist Dmitri Mendeleev (mehn-duh-LAY-uhf) (1834–1907) codified the rules of chemistry in the periodic table. Chemistry was subdivided into many specialized branches, including organic chemistry—the study of the compounds of carbon. Applying theoretical insights gleaned from this new field, researchers in large German chemical companies discovered ways of transforming the dirty, useless coal tar that accumulated in coke ovens into beautiful, expensive synthetic dyes for the world of fashion. German production of synthetic dyes soared, and by 1900 German chemical companies controlled 90 percent of world production.

Electricity, a scientific curiosity in 1800, was totally transformed by a century of tremendous technological advancement. It became a commercial form of energy, first used in communications (the telegraph, which spurred quick international communication with the laying of underwater cables), then in electrochemistry (refining aluminum, for example), and finally in central power generation (for lighting, transportation, and industrial motors). And by 1890 the internal combustion engine fueled by petroleum was an emerging competitor to steam and electricity alike.

The successful application of scientific research in the fast-growing electrical and organic chemical industries between 1880 and 1913 provided a model for other industries. Systematic “R&D”—research and development—was born in the late nineteenth century. Above all, the burst of industrial creativity and technological innovation, often called the Second Industrial Revolution, promoted the strong economic growth in the last third of the nineteenth century that drove the urban reforms and the rising standard of living considered in this chapter.

The triumph of science and technology had three other significant consequences. First, though ordinary citizens continued to lack detailed scientific knowledge, everyday experience and innumerable articles in newspapers and magazines impressed the importance of science on the popular mind. Second, as science became more prominent in popular thinking, the philosophical implications of science formulated in the Enlightenment spread to broad sections of the population. Natural processes appeared to be determined by rigid laws, leaving little room for either divine thermodynamics A branch of physics built on Newton’s laws of mechanics that investigated the relationship between heat and mechanical energy. Second Industrial Revolution The burst of industrial creativity and technological innovation that promoted strong economic growth in the last third of the nineteenth century.
intervention or human will. Yet scientific and technical advances had also fed the Enlightenment’s optimistic faith in human progress, which now appeared endless and automatic to growing numbers of people. Third, the methods of science acquired unrivaled prestige after 1850. For many, the union of careful experiment and abstract theory was the only reliable route to truth and objective reality. The “unscientific” intuitions of poets and the revelations of saints seemed hopelessly inferior.

**Darwin and Natural Selection**

Scientific research also progressed rapidly outside of the world of industry and technology, sometimes putting forth direct challenges to traditional beliefs. In geology, for example, Charles Lyell (1797–1875) effectively discredited the long-standing view that the earth’s surface had been formed by short-lived cataclysms, such as biblical floods and earthquakes. Instead, according to Lyell’s principle of uniformitarianism, the same geological processes that are at work today slowly formed the earth’s surface over an immensely long time. The vast timescale required for the processes that Lyell described to have these effects undermined traditional beliefs about the age of the earth based on religious teachings. Similarly, the evolutionary view of biological development, first proposed by the Greek Anaximander in the sixth century B.C., re-emerged in a more modern form in the work of French naturalist Jean-Baptiste Lamarck (1744–1829). Lamarck asserted that all forms of life had arisen through a long process of continuous adjustment to the environment, a dramatic challenge to the belief in divine creation of species.
Lamarck's work was flawed—he believed that the characteristics parents acquired in the course of their lives could be inherited by their children—and was not accepted, but it helped prepare the way for Charles Darwin (1809–1882), the most influential of all nineteenth-century evolutionary thinkers. As the official naturalist on a five-year scientific cruise to Latin America and the South Pacific beginning in 1831, Darwin carefully collected specimens of the different animal species he encountered on the voyage. Back in England, convinced by fossil evidence and by his friend Lyell that the earth and life on it were immensely ancient, Darwin came to doubt the general belief in a special divine creation of each species of animal. Instead, he concluded, all life had gradually evolved from a common ancestral origin in an unending "struggle for survival." After long hesitation, Darwin published his research, which immediately attracted wide attention.

Darwin's great originality lay in suggesting precisely how biological evolution might have occurred. His theory of evolution is summarized in the title of his work On the Origin of Species by the Means of Natural Selection (1859). Decisively influenced by the gloomy assertions of Thomas Malthus (MAL-thus) that populations naturally grow faster than their food supplies (see Chapter 20), Darwin argued that chance differences among the members of a given species helped some survive while others die. Thus the variations that prove useful in the struggle for survival are selected naturally, and they gradually spread to the entire species through reproduction.

Darwin's controversial theory had a powerful and many-sided influence on European thought and the European middle classes. Because his ideas seemed to suggest that evolution moved along without God's intervention, and that humans were simply one species among many others, some conservatives mocked Darwin for suggesting that humans descended from apes. Others hailed Darwin as the great scientist par excellence, the "Newton of biology," who had revealed once again the powers of objective science.

Some thinkers went a step further and applied Darwin's theory of biological evolution to human affairs. English philosopher Herbert Spencer (1820–1903) saw the human race as driven forward to ever-greater specialization and progress by a brutal economic struggle that determined the "survival of the fittest." The poor were the ill-fated weak; the prosperous were the chosen strong. Social Darwinism gained adherents among nationalists, who viewed global competition between countries as a grand struggle for survival, as well as among imperialists, who used Social Darwinist ideas to justify the rule of the "advanced" West over their colonial subjects and territories.

The Modern University and the Social Sciences

By the 1880s major universities across Europe had been modernized and professionalized. Education now emphasized controlled research projects in newly established clinics and laboratories; advanced students conducted independent research in seminar settings. An increasingly diversified professoriate established many of the academic departments still at work in today's universities, from anthropology to zoology. In a striking development, faculty devoted to the newly instituted human or social sciences took their place alongside the hard sciences. Using critical methods often borrowed from natural science, social scientists studied massive sets of numerical data that governments had begun to collect on everything from children to crime and from population to prostitution. Like Karl Marx, they were fascinated by the rise of capitalism and modernity; unlike Marx, they preferred to understand rather than revolutionize society.

Sociology, the critical analysis of contemporary or historical social groups, emerged as a leading social science. Perhaps the most prominent and influential late-nineteenth-century sociologist was the German Max Weber (1864–1920). In his most famous book, The Protestant Ethic and the "Spirit" of Capitalism (1890), Weber argued that the rise of capitalism was directly linked to Protestantism in northern Europe. Pointing to the early and successful modernization of countries like the Netherlands and England, he concluded that Protestantism gave religious approval to hard work, saving, and investing—the foundations for capitalist development—because worldly success was a sign of God's approval. This famous argument seriously challenged the basic ideas of Marxism: ideas, for Weber, were just as important as economics or class struggle in the rise of capitalism. An ambitious scholar, Weber also wrote on capitalist rationalization, modern bureaucracy, industrialization and agriculture, and the forms of political leadership. (See "Primary Source 22.4: Max Weber Critics Industrial Capitalism," page 746.)

In France, the prolific sociologist Émile Durkheim (1858–1917) earned an international reputation for his wide-ranging work. His study of the psychic and social basis of religion, The Elementary Forms of Religious Life (1912), remains a classic of social-scientific thought. In his pioneering work of quantitative sociology, Suicide (1897), Durkheim concluded that
Max Weber Critiques Industrial Capitalism

When prominent U.S. sociologist Talcott Parsons first translated Max Weber’s 1905 classic work The Protestant Ethic and the "Spirit" of Capitalism and Other Writings in 1930, his use of the term "iron cage" to describe capitalist rationality was seared into the consciousness of generations of English-speaking academics. In this more up-to-date and accurate translation, "shell as hard as steel" replaces "iron cage." Weber’s scathing critique of capitalist rationality remains the same.

A constituent part of the capitalist spirit, and not only this but of modern culture, namely, the rational conduct of life on the foundation of the idea of the calling, was born (as this essay shows) out of the spirit of Christian asceticism. One only needs to reread [Benjamin] Franklin’s tract (quoted at the beginning of this essay) to see that the essential elements of the attitude which is there termed the "spirit of capitalism" are precisely those which we found to be the content of Puritan asceticism of the calling, only without the religious foundation, which had already ceased to exist at the time of Franklin. . . .

The Puritans wanted to be men of the calling—we, on the other hand, must be. For when asceticism moved out of the monastic cells and into working life, and began to dominate worldly morality, it helped to build that mighty cosmos of the modern economic order (which is bound to the technical and economic conditions of mechanical and machine production). Today this mighty cosmos determines, with overwhelming coercion, the style of life not only of those directly involved in business but of every individual who is born into this mechanism, and may well continue to do so until the day that the last ton of fossil fuel has been consumed.

In Baxter’s view, concern for outward possessions should sit lightly on the shoulders of his saints “like a thin cloak which can be thrown off at any time.” But fate decreed that the cloak should become a shell as hard as steel [or “iron cage” in the earlier translation]. As asceticism began to change the world and endeavored to exercise its influence over it, the outward goods of this world gained increasing and finally inescapable power over men, as never before in history. Today its spirit has fled from this shell—whether for all time, who knows? Certainly, victorious capitalism has no further need for this support now that it rests on the foundation of the machine. Even the optimistic mood of its laughing heir, the Enlightenment, seems destined to fade away, and the idea of the “duty in a calling” haunts our lives like the ghost of once-held religious beliefs. . . .

No one yet knows who will live in that shell in the future. Perhaps new prophets will emerge, or powerful old ideas and ideals will be reborn at the end of this monstrous development. Or perhaps—if neither of these occurs—“Chinese” (or mechanized) ossification, dressed up with a kind of desperate self-importance, will set in. Then, however, it might truly be said of the “last men” in this cultural development: “specialists without spirit, hedonists without a heart, these nonentities imagine they have attained a stage of humankind never before reached.”

EVALUATE THE EVIDENCE

1. Why is Weber pessimistic about the possibility of escaping from the hardened “shell” or the “iron cage” of “outward goods”? How, according to Weber, has human consciousness changed to accommodate the growth of industrial capitalism?

2. Does Weber’s argument about the rise of capitalism challenge Marx’s explanation of the same?

Ever-higher suicide rates were caused by widespread feelings of “anomic,” or rootlessness. Because modern society had stripped life of all sense of tradition, purpose, and belonging, Durkheim believed, anomic was inescapable; only an entirely new moral order might offer some relief.

Other sociologists contributed to the critique of modern society. The German Ferdinand Tönnies (1855–1936) argued that with industrialization Western civilization had undergone a fundamental transformation from “community” to “society.” Rationalized self-interest had replaced traditional values, leading to intensified alienation and a cold bureaucratic age. In The Crowd (1895), French sociologist Gustave Le Bon (1841–1931) wrote that the alienated masses were prone to gathering in mass crowds, in which individuals lost control over their emotions and actions. According to the deeply conservative Le Bon, a strong
charismatic leader could easily manipulate the crowd's collective psyche, and the servile crowd could become a violent and dangerous revolutionary mob.

The new sociologists cast a bleak image of urban industrial society. While they acknowledged some benefits of rationalization and modernization, they mourned the accompanying loss of community and tradition. In some ways, their diagnosis of the modern individual as an isolated atom suffering from anomie and desperately seeking human connection was chillingly prescient: the powerful Communist and Fascist movements that swept through Europe after World War I seemed to win popular support precisely by offering ordinary people a renewed sense of belonging.

Realism in Art and Literature

In art and literature, the key themes of realism emerged in the 1840s and continued to dominate Western culture and style until the 1890s. Realist artists and writers believed that cultural works should depict life exactly as it was. Forsaking the personal, emotional viewpoint of the romantics for strict, supposedly scientific objectivity, the realists observed and recorded the world around them—often to expose the sordid reality of modern life.

Emphatically rejecting the romantic search for the exotic and the sublime, realism (or "naturalism," as it was often called) energetically pursued the typical and the commonplace. Beginning with a dissection of the middle classes, from which most of them sprang, many realists eventually focused on the working classes, especially the urban working classes, which had been neglected in imaginative literature before this time. The realists put a microscope to many unexplored and taboo subjects, including sex, labor strikes, violence, and alcoholism, and hastened to report that slums and factories

Realism in the Arts  Realist depictions of gritty everyday life challenged the romantic fascination with nature and the emotions, as well as the neoclassical focus on famous men and grand events. French painter Honoré Daumier's *The Third-Class Carriage*, completed in 1864, is a famous example of realism in the arts that portrays the effects of industrialization in the mid-nineteenth century. In muted colors, Daumier's painting captures the grinding poverty and weariness of the poor but also lends a sense of dignity to their humble lives. (Metropolitan Museum of Art, New York, USA/De Agostini Picture Library/The Bridgeman Art Library)
Émile Zola and Realism in Literature

"There should no longer be any school, no more formulas, no standards of any sort; there is only life itself, an immense field where each may study and create as he likes," wrote Émile Zola in 1867. The great realist author applied these precepts in the opening lines of his 1885 masterpiece novel, Germinal, which championed the rights of French coal miners in the late nineteenth century.

Over the open plain, beneath a starless sky as dark and thick as ink, a man walked alone along the highway from Marchiennes to Montsou, a straight paved road ten kilometres in length, intersecting the beetroot-fields. He could not even see the black soil before him, and only felt the immense flat horizon by the gusts of March wind, squalls as strong as on the sea, and frozen from sweeping leagues of marsh and naked earth. No tree could be seen against the sky, and the road unrolled as straight as a pier in the midst of the blinding spray of darkness.

The man had set out from Marchiennes about two o’clock. He walked with long strides, shivering beneath his worn cotton jacket and corduroy breeches. A small parcel tied in a check handkerchief troubled him much, and he pressed it against his side, sometimes with one elbow, sometimes with the other, so that he could slip to the bottom of his pockets both the benumbed hands that bled beneath the lashes of the wind. A single idea occupied his head—the empty head of a workman without work and without lodging—the hope that the cold would be less keen after sunrise. For an hour he went on thus, when on the left, two kilometres from Montsou, he saw red flames, three fires burning in the open air and apparently suspended. At first he hesitated, half afraid. Then he could not resist the painful need to warm his hands for a moment.

Suddenly, at a bend in the road, the fires reappeared close to him, though he could not understand how they burnt so high in the dead sky, like smoky moons. But on the level soil another sight had struck him. It was a heavy mass, a low pile of buildings from which rose the silhouette of a factory chimney; occasional gleams appeared from dirty windows, five or six melancholy lanterns were hung outside to frames of blackened wood, which vaguely outlined the profiles of gigantic stages; and from this fantastic apparition, drowned in night and smoke, a single voice arose, the thick, long breathing of a steam escape ment that could not be seen.

Then the man recognized a [mine] pit. His despair returned. What was the good? There would be no work. Instead of turning towards the buildings he decided at last to ascend the pit bank, on which burnt in iron baskets the three coal fires which gave light and warmth for work. The labourers in the cutting must have been working late; they were still throwing out the useless rubbish... He could distinguish living shadows tipping over the trains or tubs near each fire.

Evaluate the Evidence

1. Zola claimed to represent "only life itself," but the vivid description in his prose often creates heavily dramatized effects. In this selection, why does Zola use such deeply poetic imagery?

2. How do the style and subject matter of realism compare and contrast with those of romanticism?


Literary realism also began in France, where Honoré de Balzac, Gustave Flaubert, and Émile Zola became internationally famous novelists. Balzac (1799–1850) spent thirty years writing a vast ambitious panorama of postrevolutionary French life. Known collectively as The Human Comedy, this series of nearly one hundred stories, novels, and essays vividly portrays more than two thousand characters from virtually all sectors of French society. Balzac pictured urban society as grasping, amoral, and brutal. In his novel Father Gervat (1835), the hero, a poor student from the provinces, eventually surrenders his idealistic integrity to feverish ambition and society’s pervasive greed.

Madame Bovary (1857), the masterpiece of Flaubert (floh-BEH) (1821–1880), is far narrower in scope...
than Balzac’s work but is still famous for its depth and accuracy of psychological insight. Unsuccessfully prosecuted as an outrage against public morality and religion, Flaubert’s carefully crafted novel tells the ordinary, even banal, story of a frustrated middle-class housewife who has an adulterous love affair and is betrayed by her lover. Without moralizing, Flaubert portrays the provincial middle class as petty, smug, and hypocritical.

Émile Zola (1840–1902) was most famous for his scathing, animalistic view of working-class life. He also wrote gripping, carefully researched stories featuring stock exchange, the big department store, and the army, as well as urban slums and bloody coal strikes. Like many later realists, Zola sympathized with socialism, a view evident in his overpowering novel Germinal (1885). (See “Primary Source 22.5: Émile Zola and Realism in Literature,” at left.)

Realism quickly spread beyond France. In England, Mary Ann Evans (1819–1880), who wrote under the pen name George Eliot, brilliantly achieved a more deeply felt, less sensational kind of realism in her great novel Middlemarch: A Study of Provincial Life (1871–1872). The novels of Thomas Hardy (1840–1928), such as Tess of the D’Urbervilles (1891) and The Return of the Native (1878), depict ordinary men and women frustrated and crushed by fate and bad luck. The greatest Russian realist, Count Leo Tolstoy (1828–1910), combined realism in description and character development with an atypical moralizing, especially in his later work. In War and Peace (1864–1869), a monumental novel set against the background of Napoleon’s invasion of Russia in 1812, Tolstoy developed his fatalistic theory of human history, which regards free will as an illusion and the achievements of even the greatest leaders as only the channeling of historical necessity. Yet Tolstoy’s central message is one that most of the people discussed in this chapter would have readily accepted: human love, trust, and everyday family ties are life’s enduring values.

Notes
MAKE IT STICK

LearningCurve
After reading the chapter, go online and use LearningCurve to retain what you've read.

Identify Key Terms
Identify and explain the significance of each item below.

utilitarianism (p. 720)  
suffrage movement (p. 741)
germ theory (p. 723)  
thermodynamics (p. 743)
labor aristocracy (p. 729)  
Second Industrial Revolution (p. 743)
sweated industries (p. 732)  
evolution (p. 745)
companionate marriage (p. 734)  
Social Darwinism (p. 745)
separate spheres (p. 737)  
realism (p. 747)

Review the Main Ideas
Answer the focus questions from each section of the chapter.

• How did urban life change in the nineteenth century? (p. 718)
• What did the emergence of urban industrial society mean for rich and poor and those in between? (p. 725)
• How did urbanization affect family life and gender roles? (p. 734)
• How and why did intellectual life change in this period? (p. 743)

Make Connections
Think about the larger developments and continuities within and across chapters.

1. What were the most important changes in everyday life from the eighteenth century (Chapter 18) to the nineteenth century? What main causes or agents drove these changes?

2. Did the life of ordinary people improve, stay the same, or even deteriorate over the 1800s when compared to the previous century? What role did developments in science, medicine, and urban planning play in this process?

3. How did the emergence of a society divided into working and middle classes impact the workplace, homemaking, and family values and gender roles?
How did people respond to the challenges brought on by rapid urbanization?

Keeping the question above in mind, go to the Integrated Media and view film footage that captures new developments in city life—from mass transit to waste disposal—and then complete a writing assignment based on the evidence and details from this chapter.

Suggested Reading and Media Resources

**BOOKS**

**DOCUMENTARIES**
- *Charles Darwin and the Tree of Life* (BBC, 2009). Marking the bicentenary of Darwin's birth, the BBC produced this television documentary about Charles Darwin and his important theory of evolution.
- *Great Russian Writers: Leo Tolstoy* (Kultur Video, 2006). A short documentary about the life and work of Leo Tolstoy.

**FEATURE FILMS**
- *Anna Karenina* (Joe Wright, 2012). Based on Leo Tolstoy’s famous novel, the film focuses on Anna Karenina’s affair with Count Vronsky.
- *The Story of Louis Pasteur* (William Dieterle, 1936). A dramatized biography of Louis Pasteur, the French chemist who developed the germ theory.

**WEB SITES**
- *Cholera and the Thames*. A captivating Web site where one can learn about the problem of cholera in London in the nineteenth century. Includes essays, games, educational resources, and a gallery of images related to the topic. www.choleraandthames.co.uk/
- *Haussmann*. An overview of the life of Georges Haussmann and his transformation of Paris from 1858 to 1870. gallery.sjsu.edu/paris/architecture/Haussmann.html
- *The Literature Network: Realism*. An extended essay about realism in literature. The site also has biographies and links to works for several realist authors, including Balzac, Eliot, Flaubert, Hardy, Tolstoy, and Zola. www.online-literature.com/periods/realism.php