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

Retrospective: 9.

This book identifies the strategic

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**changes that affected Britain from
1750-1850.**

**In recent years, scholars from a
variety of disciplines have
addressed many perplexing
questions about the Industrial
Revolution in all its aspects.**

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Understandably, economics has become the focal point for these efforts as professional economists have sought to resolve some of the controversies surrounding this topic. First published in 1985, this collection contains ten key essays

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**written by leading economists on
the subject of the Industrial
Revolution. Among the questions
discussed are the causes for the
pre-eminence of Britain, the roles
of the inputs for growth (capital,
labor, technical progress), the**

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**importance of demand factors, the
relation between agricultural
progress and the Industrial
Revolution, and the standard of
living debate. The essays
demonstrate that the application
of fresh viewpoints to the**

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literature has given us a considerable new body of data at our disposal, making it possible to test commonly held hypotheses. In addition, this new data has enabled economists to apply a more rigorous logic to the

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**thinking about the Industrial
Revolution, thus sharpening many
issues heretofore blurred by
slipshod methodology and internal
inconsistencies.**

**From the Industrial Revolutions
to the Information Revolution**

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James Watt

**Childhood and Child Labour in
the British Industrial Revolution
Life and Work Between the
Renaissance and the Industrial
Revolution**

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**A People's History of the
Industrial Revolution**
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The 'Industrial Revolution' was a pivotal point in British history that occurred between the mid-eighteenth and mid-nineteenth centuries and led to far reaching transformations of society.

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With the advent of revolutionary manufacturing technology productivity boomed. Machines were used to spin and weave cloth, steam engines were used to provide reliable power, and industry was fed by the construction of the first railways, a great network of

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arteries feeding the factories. Cities grew as people shifted from agriculture to industry and commerce. Hand in hand with the growth of cities came rising levels of pollution and disease. Many people lost their jobs to the new machinery, whilst working conditions

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in the factories were grim and pay was low. As the middle classes prospered, social unrest ran through the working classes, and the exploitation of workers led to the growth of trade unions and protest movements. In this Very Short Introduction, Robert C. Allen analyzes

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the key features of the Industrial Revolution in Britain, and the spread of industrialization to other countries. He considers the factors that combined to enable industrialization at this time, including Britain's position as a global commercial empire, and discusses the

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changes in technology and business organization, and their impact on different social classes and groups. Introducing the 'winners' and the 'losers' of the Industrial Revolution, he looks at how the changes were reflected in evolving government

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policies, and what contribution these made to the economic transformation.

ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the

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perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

The masterful account of Britain's

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reshaping as a modern nation In 1530
England was a backward economy. Yet
by 1780 she possessed a global empire
and was on the verge of becoming the
world's first industrialized power. This
book deals with the intervening 250
years, and explains how England

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acquired this unique position in history. Esteemed historian Christopher Hill recounts a story that begins with the break with Europe before hitting a tumultuous period of war and revolution, combined with a cultural and scientific flowering that made up

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the early modern period. It was in this era that Britain became home to imperial ambitions and economic innovation, prefiguring what was to come. Hill excavates the conditions and ideas that underpin this age of extraordinary change, and shows how,

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and why, Britain became the most powerful nation in the world.

In late eighteenth-century Britain a handful of men brought about the greatest transformation in human history. Inventors, industrialists and entrepreneurs ushered in the age of

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powered machinery and the factory, and thereby changed the whole of human society, bringing into being new methods of social and economic organisation, new social classes, and new political forces. The Industrial Revolution also dramatically altered

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humanity's relation to the natural world and embedded the belief that change, not stasis, is the necessary backdrop for human existence. Iron, Steam and Money tells the thrilling story of those few decades, the moments of inspiration, the rivalries, skulduggery

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and death threats, and the tireless perseverance of the visionaries who made it all happen. Richard Arkwright, James Watt, Richard Trevithick and Josiah Wedgwood are among the giants whose achievements and tragedies fill these pages. In this authoritative study

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Roger Osborne also shows how and why the revolution happened, revealing pre-industrial Britain as a surprisingly affluent society, with wealth spread widely through the population, and with craft industries in every town, village and front parlour. The

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combination of disposable income, widespread demand for industrial goods, and a generation of time-served artisans created the unique conditions that propelled humanity into the modern world. The industrial revolution was arguably the most

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important episode in modern human history; Iron, Steam and Money reminds us of its central role, while showing the extraordinary excitement of those tumultuous decades.

Understanding the Industrial Revolution is a fresh, new exploration

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of this economic phenomenon of major importance. It describes theories of economic growth, shows how these can be applied to the revolution and discusses them in the light of modern research. Furthermore, it places the debate surrounding the social effects of

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industrialisation into the context of economic change during the period.

This book includes discussion of: * theories on the supply of capital * role of labour * innovation and entrepreneurship * the significance of transport * the impact of

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industrialisation on living standards.

Each aspect of the Industrial
Revolution in Britain is discussed in
depth, focusing on the important
debates and reviewing the most recent
research.

Popular Addresses Notes and Other

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1530-1780

The British Industrial Revolution in
Global Perspective
Industrial Britain
Replenishing the Earth
The Settler Revolution and the Rise of

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the Angloworld
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A rich and ambitious history reframing the Industrial Revolution, the expansion of the British empire, and the emergence of industrial capitalism as inextricable from

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*the gun trade. From the
seventeenth to the nineteenth
century, the industrial revolution
transformed Britain from an
agricultural and artisanal
economy to one dominated by
industry, ushering in*

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*unprecedented growth in
technology and trade and putting
the country at the center of the
global economy. But the
commonly accepted story of the
industrial revolution, anchored in
images of cotton factories and*

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*steam engines invented by
unfettered geniuses, overlooks
the true root of economic and
industrial expansion: the
lucrative military contracting that
enabled the country's near-
constant state of war in the*

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eighteenth century. Demand for the guns and other war materiel that allowed British armies, navies, mercenaries, traders, settlers, and adventurers to conquer an immense share of the globe in turn drove the rise of

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innumerable associated industries, from metalworking to banking. Bookended by the Glorious Revolution of 1688 and the end of the Napoleonic Wars in 1815, this book traces the social and material life of British

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guns over a century of near-constant war and violence at home and abroad. Priya Satia develops this story through the life of prominent British gun-maker and Quaker Samuel Galton Jr., who was asked to

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*answer for the moral defensibility
of producing guns as new uses
like anonymous mass violence
rose. Reconciling the pacifist
tenet of his faith with his
perception of the economic
realities of the time, Galton*

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argued that war was driving the industrial economy, making everyone inescapably complicit in it. Through his story, Satia illuminates Britain's emergence as a global superpower, the roots of the government's role in

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economic development, and the origins of our own era's debates over gun control and military contracting.

Aimed at the general reader, this is an important new overview of the Industrial Revolution across

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the British Isles.

*Scottish inventor and mechanical
engineer James Watt
(1736–1819) is best known for
his pioneering work on the steam
engine that became fundamental
to the incredible changes and*

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developments wrought by the Industrial Revolution. But in this new biography, Ben Russell tells a much bigger, richer story, peering over Watt's shoulder to more fully explore the processes he used and how his ephemeral

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ideas were transformed into tangible artifacts. Over the course of the book, Russell reveals as much about the life of James Watt as he does a history of Britain's early industrial transformation and the birth of

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professional engineering. To record this fascinating narrative, Russell draws on a wide range of resources—from archival material to three-dimensional objects to scholarship in a diversity of fields from ceramics to antique

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*machine-making. He explores
Watt's early years and interest
in chemistry and examines
Watt's partnership with Matthew
Boulton, with whom he would
become a successful and
wealthy man. In addition to*

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*discussing Watt's work and
incredible contributions that
changed societies around the
world, Russell looks at Britain's
early industrial transformation.
Published in association with the
Science Museum London, and*

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with seventy illustrations, James Watt is not only an intriguing exploration of the engineer's life, but also an illuminating journey into the broader practices of invention in the eighteenth and early nineteenth centuries.

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*Published in association with the
Science Museum, London*

*In The Path Not Taken, Jeff Horn
argues that—contrary to standard,
Anglocentric accounts—French
industrialization was not a failed
imitation of the laissez-faire*

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British model but the product of a distinctive industrial policy that led, over the long term, to prosperity comparable to Britain's. Despite the upheavals of the Revolution and the Napoleonic Wars, France

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developed and maintained its own industrial strengths. France was then able to take full advantage of the new technologies and industries that emerged in the "second industrial revolution," and by the

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*end of the nineteenth century
some of France's industries were
outperforming Britain's handily.
The Path Not Taken shows that
the foundations of this success
were laid during the first
industrial revolution. Horn posits*

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that the French state's early attempt to emulate Britain's style of industrial development foundered because of revolutionary politics. The "threat from below" made it impossible for the state or entrepreneurs to

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control and exploit laborers in the British manner. The French used different means to manage labor unruliness and encourage innovation and entrepreneurialism. Technology is at the heart of Horn's analysis,

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and he shows that France, unlike England, often preferred still-profitable older methods of production in order to maintain employment and forestall revolution. Horn examines the institutional framework

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established by Napoleon's most important Minister of the Interior, Jean-Antoine Chaptal. He focuses on textiles, chemicals, and steel, looks at how these new institutions created a new industrial environment. Horn's

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*illuminating comparison of
French and British
industrialization should stir
debate among historians,
economists, and political
scientists.*

The Impact of the Industrial

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*Revolution on Irish Industry,
1801-1922*

*Energy and the English Industrial
Revolution*

Iron, Steam & Money

*Child Workers and Industrial
Health in Britain, 1780-1850*

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A Compendium

*The Economics of the Industrial
Revolution (Routledge Revivals)*

This is a unique account of working-class childhood during the British industrial revolution, first published in 2010. Using more than 600 autobiographies written by

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working men of the eighteenth and nineteenth centuries Jane Humphries illuminates working-class childhood in contexts untouched by conventional sources and facilitates estimates of age at starting work, social mobility, the extent of apprenticeship and the duration of schooling. The classic era of

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industrialisation, 1790 – 1850, apparently saw an upsurge in child labour. While the memoirs implicate mechanisation and the division of labour in this increase, they also show that fatherlessness and large subsets, common in these turbulent, high-mortality and high-fertility times, often cast children as partners and supports for mothers

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struggling to hold families together. The book offers unprecedented insights into child labour, family life, careers and schooling. Its images of suffering, stoicism and occasional childish pleasures put the humanity back into economic history and the trauma back into the industrial revolution.

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Pioneering study of the anglophone 'settler boom' in North America, Canada, South Africa, Australia, and New Zealand between the early 19th and early 20th centuries, looking at what made it the most successful of all such settler revolutions, and how this laid the basis of British and American power in the 19th and 20th

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centuries.

A comprehensive study of the occupational health of employed children within the broader context of social, industrial and environmental change between 1780 and 1850.

Describes the rise of the steamship in the United States and its effect on the

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industrial revolution.

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Making the World Anew

Liberty's Dawn

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The Making of the Industrial Revolution

The Cambridge Companion to the

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History of the Book

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How can we best understand the impact of revolutionary technologies on the business cycle, the economy, and society? Why is economics meaningless without history and without an understanding

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of institutional and technical change? Does the 'new economy' mean the 'end of history'? and we best understand the impact of revolutionary technologies on business organization and the business cycle? These

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are some of the questions
addressed in this
authoritative analysis of
modern economic growth from
the Industrial Revolution to
the 'New Economy' of today.
Chris Freeman has been one
of the foremost researchers

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on innovation for a long
time and his colleague
Francisco Louçã is an
outstanding historian of
economic theory and an
analyst of econometric
models and methods. Together
they chart the history of

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five technological
revolutions: water-powered
mechanization, steam-powered
mechanization,
electrification,
motorization, and
computerization. They
demonstrate the necessity to

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take account of politics,
culture, organizational
change, and
entrepreneurship, as well as
science and technology in
the analysis of economic
growth. This is an well-
informed, highly topical,

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and persuasive study of
interest across all the
social sciences.

The industrial revolution in
Britain changed the world.

The images we all share - of
steam engines and
locomotives, smoke and smog,

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multi-story textile mills
and regiments of working men
and women flooding out of
factory gates at the end of
their shift - are all so
familiar that it is easy to
forget how enormous, far-
reaching and upsetting were

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the events and processes that brought us into this new, industrial age. In Britain all of these things, and more, happened first and most dramatically. Factories as we know them were invented here; mines were

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sunk to new depths;
inventive and
entrepreneurial minds sought
to make things in new ways
that were better, faster and
cheaper; engineers harnessed
water and steam power as
never before to drive

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machinery and equipment in concentrated centers of production. Innovations were put to work in new types of building, by new types of people and organizations. Alongside functional innovations such as these

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emerged entirely new ways of living. A flood of rural humanity swept into industrializing towns in search of work; people came to live in the shadows of the mills, the chimneys or the winding gears that - in

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the minds of many
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contemporaries - now
enslaved them; patterns of
life as well as work became
tied to those of the
machine. Society changed
just as fundamentally as did
the economy. And the

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landscape changed for ever
too: rural valleys filled
with water-powered workshops
and mills; canals were cut
through fields, and along
their banks sprang up yet
more factories; in towns the
air was thick with smoke

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from hundreds of chimneys.
Towns sprawled; production
boomed; British exports
dominated trade. Britain
became "the workshop of the
world", its inhabitants "a
manufacturing people".
Contemporaries were shocked,

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thrilled and fascinated.
This important new book
endeavors to explain the
industrial revolution
throughout the British
Isles. It is difficult to
know how, fifty years from
now, the industrial

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revolution will be viewed.

Perhaps, amid irreversible
global warming and
environmental disaster, as
one of mankind's greatest
mistakes? Alternatively,
might the mixture of
enterprise and technological

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innovation of the type that flourished in Great Britain from the eighteenth century in fact provide remedies to such problems?REVIEWS

' 'Barrie Trinder' 's work over recent decades has played a vital part in the

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recognition and understanding of the importance of Britain's legacy as the first industrial nation. In this magisterial survey he now takes the long view in an impressive and wide-ranging

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survey of the experience of
industrialisation,
presenting the fruits of a
lifetime of research in a
richly illustrated picture
of England, Scotland, Wales
and Ireland. A valuable,
accessible and up-to-date

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overview achieved through an
impressive union of local
examples and wide historical
insights.' ' Kate
Tiller' 'Barrie Trinder is
one of our foremost
industrial historians. This
fully illustrated book is a

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compendium of his own observations over more than fifty years coupled with the work of others across Britain and Ireland. It shows in detail, superbly illustrated, numerous sites and places where industry,

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coal, iron, steel, lead, tin, textiles, and many more activities once ruled. So much has now gone that the book is as much a record of a now lost industrial world as it is an account of Britain's industrial

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revolution. A monumental study of the industrial glory that we have now lost, this is a book that anyone with an interest in our industrial heritage as well as our towns can enjoy dipping into, from an author

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who has criss-crossed the British Isles to record and document our industrial heritage. The numerous illustrations with long and helpful captions make this a compelling account.' 'Prof. John V. Beckett' 'This is the

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story of the great
powerhouse of British
history. Here, renowned
historian Barrie Trinder
offers a magisterial and
comprehensive view, sweeping
in its perspectives yet
coloured by a wealth of rich

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and vivid detail. It is
timely, in two senses. First,
the Industrial Revolution,
its causes, effects and
aftermath, are increasingly
the subject of conjecture,
analysis and research. This
engaging new study opens the

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door to that debate. Second, in Barrie Trinder we have an erudite mentor who affords us the immediacy of his own experiences; of doubling at Masson Mill, weaving at Saltaire, casting at New Foundry, Stourbridge. And,

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in this compendium he brings a sense of clarity to themes that are often conflated; the revolution in transport as distinct from its engineering structures, the steam engine analyzed both as a source of energy and

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the creation of mechanical engineers. To all with an interest in this most misunderstood episode in the nation''s history, Barrie Trinder''s new book brings, as no other, the Industrial Revolution into focus. ''

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[Sir] Neil
Cossons 'Britain's

Industrial Revolution is a
magisterial achievement.
Compendious yet sharply
incisive, expert yet wise,
academically exact yet
visually compelling and at

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times almost poetic, it presents a lifetime's investigation and understanding of one of the most exciting moments in world history in a volume of Braudelian scope and ambition. It is hard to

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imagine that anyone but
Barrie Trinder could have
brought this prodigious
enterprise to fruition.
There has been no other book
like it and it will be the
standard bearer for a
generation.' ' All best

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wishes. It is going to be an
outstanding book! Dr Peter
Wakelin

World-renowned economist
Klaus Schwab, Founder and
Executive Chairman of the
World Economic Forum,
explains that we have an

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opportunity to shape the fourth industrial revolution, which will fundamentally alter how we live and work. Schwab argues that this revolution is different in scale, scope and complexity from any that

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have come before.

Characterized by a range of
new technologies that are
fusing the physical, digital
and biological worlds, the
developments are affecting
all disciplines, economies,
industries and governments,

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and even challenging ideas about what it means to be human. Artificial intelligence is already all around us, from supercomputers, drones and virtual assistants to 3D printing, DNA sequencing,

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smart thermostats, wearable sensors and microchips smaller than a grain of sand. But this is just the beginning: nanomaterials 200 times stronger than steel and a million times thinner than a strand of hair and

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the first transplant of a 3D printed liver are already in development. Imagine "smart factories" in which global systems of manufacturing are coordinated virtually, or implantable mobile phones made of biosynthetic

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materials. The fourth industrial revolution, says Schwab, is more significant, and its ramifications more profound, than in any prior period of human history. He outlines the key technologies driving this

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revolution and discusses the major impacts expected on government, business, civil society and individuals. Schwab also offers bold ideas on how to harness these changes and shape a better future—one in which

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technology empowers people
rather than replaces them;
progress serves society
rather than disrupts it; and
in which innovators respect
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rather than cross them. We
all have the opportunity to

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monumental bridges of
Britain, including the
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projects associated with the
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goods - docks, canals,
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production The mill
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on greenfield sites It's a
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development, but also a
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decline. As manufacturing
has been increasingly
replaced by services, new

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uses have been found for at least some of the country's great industrial buildings. Not least as containers for art and heritage, such as the Bankside Power Station (Tate Modern) and Salts Mill. Other buildings

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featured are still used as originally intended today, such as Smithfield Market in London and the Shepherd Neame brewery in Faversham. Illustrated throughout with over 200 original line drawings, Industrial Britain

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is a celebration of
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**the British industrial
revolution was a successful
response to the global
economy of the seventeenth
and eighteenth centuries.
He shows that in Britain
wages were high and capital**

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**and energy cheap in
comparison to other
countries in Europe and
Asia. As a result, the
breakthrough technologies
of the industrial revolution
- the steam engine, the**

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**cotton mill, and the
substitution of coal for
wood in metal production -
were uniquely profitable to
invent and use in Britain.
The high wage economy of
pre-industrial Britain also**

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**fostered industrial
development since more
people could afford
schooling and
apprenticeships. It was only
when British engineers
made these new**

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technologies more cost-effective during the nineteenth century that the industrial revolution would spread around the world.

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key industries of the 19th century. In this period iron making in continental Europe was transformed by the take-up of technologies such as coke smelting and iron puddling that had already

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revolutionised the British iron industry. The transfer of British technologies was fundamental to European industrialisation, but that transfer was not straightforward. The techniques that had proved so

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successful in Britain had to be adapted to local circumstances elsewhere, for charcoal-fired techniques proved surprisingly durable. More often than not, as these studies show, coal-fired methods were

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*incorporated into traditional
production systems, making for
the proliferation of
technological hybrids. Overall,
it is diversity that stands out.
Some European regions
(southern Belgium) came near*

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to the British model; others (Spain) persisted with charcoal technology into the late 19th century. Some countries (Sweden) adopted British organisational principles but not the reliance on coal; others

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(Russia) maintained different iron making sectors - one coal-based, the other loyal to charcoal - in parallel.

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And why did it occur in Britain
when it did? Ever since the
expression was coined in the
19th century, historians have
been debating these questions,
and there now exists a large

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how it raised incomes, improved literacy, and offered exciting opportunities for political action. For many, this was a period of new, and much valued, sexual and cultural freedom. This rich personal account focuses on the

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social impact of the Industrial Revolution, rather than its economic and political histories. In the tradition of bestselling books by Liza Picard, Judith Flanders, and Jerry White, Griffin gets under the skin of

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world (The Seattle Times). In less than one hundred and fifty years, an unlikely band of scientists, spies, entrepreneurs, and political refugees took a world made of wood and powered by animals, wind, and

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water, and made it into something entirely new, forged of steel and iron, and powered by steam and fossil fuels. This “entertaining and informative” account weaves together the dramatic stories of giants such

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