

Artificial Intelligence A Ladybird Expert Book The Ladybird Expert Series

This book will introduce students to intelligent agents, explain what these agents are, how they are constructed and how they can be made to co-operate effectively with one another in large-scale systems. Due to the growing use of web applications and communication devices, the use of data has increased throughout various industries, including business and healthcare. It is necessary to develop specific software

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programs that can analyze and interpret large amounts of data quickly in order to ensure adequate usage and predictive results. Cognitive Analytics: Concepts, Methodologies, Tools, and Applications provides emerging perspectives on the theoretical and practical aspects of data analysis tools and techniques. It also examines the incorporation of pattern management as well as decision-making and prediction processes through the use of data management and analysis. Highlighting a range of topics such as natural language processing, big data, and pattern recognition, this multi-volume book is ideally designed for information technology

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professionals, software developers, data analysts, graduate-level students, researchers, computer engineers, software engineers, IT specialists, and academicians.

Algorithmic puzzles are puzzles involving well-defined procedures for solving problems. This book will provide an enjoyable and accessible introduction to algorithmic puzzles that will develop the reader's algorithmic thinking. The first part of this book is a tutorial on algorithm design strategies and analysis techniques. Algorithm design strategies — exhaustive search, backtracking, divide-and-conquer and a few others — are general approaches to designing step-by-

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step instructions for solving problems. Analysis techniques are methods for investigating such procedures to answer questions about the ultimate result of the procedure or how many steps are executed before the procedure stops. The discussion is an elementary level, with puzzle examples, and requires neither programming nor mathematics beyond a secondary school level. Thus, the tutorial provides a gentle and entertaining introduction to main ideas in high-level algorithmic problem solving. The second and main part of the book contains 150 puzzles, from centuries-old classics to newcomers often asked during job interviews at computing,

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engineering, and financial companies. The puzzles are divided into three groups by their difficulty levels. The first fifty puzzles in the Easier Puzzles section require only middle school mathematics. The sixty puzzle of average difficulty and forty harder puzzles require just high school mathematics plus a few topics such as binary numbers and simple recurrences, which are reviewed in the tutorial. All the puzzles are provided with hints, detailed solutions, and brief comments. The comments deal with the puzzle origins and design or analysis techniques used in the solution. The book should be of interest to puzzle lovers, students and teachers of algorithm courses, and persons expecting

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to be given puzzles during job interviews.

Your guide to science, from the Big Bang to AI

*Whether you wish to discover the basics of science or catch up on its latest developments, this short accessible guide is for you. YOUNIVERSE describes in simple terms the world you are inseparably a part of: what it is, how it works and your place in it - insofar as these things are known. The text has been vetted by 13 distinguished scientists. Journey now through time and space, a world of the unimaginably big and the inconceivably small - though the marvels of science. *PRAISE FOR YOUNIVERSE* 'This is a fine piece of work... very entertaining and informative... It should*

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*appeal and be useful to the generalist who wants an
overview of science.’ Sir Peter Ratcliffe, 2019 Nobel
Prize winner and head of clinical research at the
Francis Crick Institute*

Homer: A Ladybird Expert Book

*Cognitive Analytics: Concepts, Methodologies, Tools,
and Applications*

Its nature and future

England's Forgotten Founder

You'll Never Get Lost Again

Pain: A Ladybird Expert Book

*7th International Workshop, MIWAI 2013, Krabi,
Thailand, December 9-11, 2013, Proceedings*

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Expert Book The Ladybird Expert Series

Written by prominent thought leaders in the global fintech space, The AI Book aggregates diverse expertise into a single, informative volume and explains what artificial intelligence really means and how it can be used across financial services today. Key industry developments are explained in detail, and critical insights from cutting-edge practitioners offer first-hand information and lessons learned. Coverage includes:

- **Understanding the AI Portfolio: from machine learning to chatbots, to natural language processing (NLP); a deep**

**dive into the Machine Intelligence
Landscape; essentials on core technologies,
rethinking enterprise, rethinking industries,
rethinking humans; quantum computing
and next-generation AI · AI experimentation
and embedded usage, and the change in
business model, value proposition,
organisation, customer and co-worker
experiences in today's Financial Services
Industry · The future state of financial
services and capital markets - what's next
for the real-world implementation of
AITech? · The innovating customer - users**

are not waiting for the financial services industry to work out how AI can re-shape their sector, profitability and competitiveness · Boardroom issues created and magnified by AI trends, including conduct, regulation & oversight in an algo-driven world, cybersecurity, diversity & inclusion, data privacy, the 'unbundled corporation' & the future of work, social responsibility, sustainability, and the new leadership imperatives · Ethical considerations of deploying AI solutions and why explainable AI is so important

From Oxford's leading AI researcher comes a fun and accessible tour through the history and future of one of the most cutting edge and misunderstood field in science: Artificial Intelligence The somewhat ill-defined long-term aim of AI is to build machines that are conscious, self-aware, and sentient; machines capable of the kind of intelligent autonomous action that currently only people are capable of. As an AI researcher with 25 years of experience, professor Mike Wooldridge has learned to be obsessively cautious about such claims,

while still promoting an intense optimism about the future of the field. There have been genuine scientific breakthroughs that have made AI systems possible in the past decade that the founders of the field would have hailed as miraculous. Driverless cars and automated translation tools are just two examples of AI technologies that have become a practical, everyday reality in the past few years, and which will have a huge impact on our world. While the dream of conscious machines remains, Professor Wooldridge believes, a distant prospect, the

floodgates for AI have opened. Wooldridge's A Brief History of Artificial Intelligence is an exciting romp through the history of this groundbreaking field--a one-stop-shop for AI's past, present, and world-changing future.

Part of the ALL-NEW LADYBIRD EXPERT SERIES. - Who was Æthelflæd? - What role did she play in the founding of England? - How has her legacy lasted to this day? DISCOVER the epic history of England's forgotten queen. Planting cities, sponsoring learning and defeating her people's

enemies, Æthelflæd laid the foundations of a kingdom that lasts to this day. THE MOST INFLUENTIAL WOMAN THAT ENGLISH HISTORY FORGOT Tom Holland's Æthelflæd puts a spotlight on this formidable leader, pulling her out of the shadowy history of the dark ages.

Life is the most extraordinary phenomenon in the known universe; but how does it work? It is remarkable that in this age of cloning and even synthetic biology, nobody has ever made anything living entirely out of dead material. Life remains the only way to

make life. Are we missing a vital ingredient in its creation? Like Richard Dawkins' The Selfish Gene, which provided a new perspective on evolution by shifting the focus of natural selection from organisms to genes, Life On The Edge alters our understanding of life from cells or biomolecules to the fundamental particles that drive life's dynamics. From this new perspective, life makes more sense as its missing ingredient is revealed to be quantum mechanics and the strange phenomena that lie at the heart of this most

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**mysterious of sciences. -- Provided by
publisher.**

Plato's Republic

**Multi-disciplinary Trends in Artificial
Intelligence**

Eric Carle's Book of Many Things

**The Artificial Intelligence Handbook for
Investors, Entrepreneurs and FinTech
Visionaries**

Modern Magic or Dangerous Future?

Plato and the Hero

The Road to Conscious Machines

'A lively, intelligent and persuasive history of

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speech...Expertly and patiently explained' The Times Why are human beings the only animals that can speak? And why does it matter? If you've ever felt the shock of listening to a recording of your own voice, you realise how important your voice is to your personal identity. We judge others – and whether we trust them – not just by their words but by the way they talk: their intonation, their pitch, their accent. Now You're Talking explores the full range of our voice – how we speak and how we sing; how our vocal anatomy works; what happens when

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things go wrong; and how technology enables us to imitate and manipulate the human voice. Trevor Cox talks to vocal coaches who help people to develop their new voice after a gender transition; to record producers whose use of technology has transformed the singing voice; and to computer scientists who replicate the human voice in their development of artificial intelligence. Beginning with the Neanderthals, *Now You're Talking* takes us all the way to the digital age – with the frightening prospect that we may soon hear 'Unexpected item in the

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bagging area' more frequently than a friendly 'Hello, how are you?' in the street.

Examines Plato's critique of the notions and embodiments of manliness prevalent in his culture.

This book constitutes the refereed post-conference proceedings of the IFIP WG 9.7 International Workshop on the History of Computing, HC 2018, Held at the 24th IFIP World Computer Congress, WCC 2018, in Poznań, Poland, in September 2018. The 16 revised full papers were carefully reviewed and selected

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from 20 submissions. They reflect academic approaches to history along with the expertise of museum and other public history professionals as well as the experience of computing and information science practitioners. The papers are organized in the following sections: Eastern Europe, Poland, Soviet Union, CoCom and Comecon; analog computing, and public history. Part of the new Ladybird Expert series, Quantum Mechanics is a clear, simple and entertaining introduction to the weird, mind-bending world of the very, very small. Written by physicist and

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broadcaster Professor Jim Al-Khalili, it explores all the key players, breakthroughs, controversies and unanswered questions of the quantum world. You'll discover how the sun shines, why light is both a wave and a particle, the certainty of the Uncertainty Principle, Schrodinger's Cat, Einstein's spooky action, how to build a quantum computer, and why quantum mechanics drives even its experts completely crazy. 'Jim Al-Khalili has done an admirable job of condensing the ideas of quantum physics from Max Planck to the possibilities of quantum computers into

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brisk, straightforward English' The Times Written by the leading lights and most outstanding communicators in their fields, the Ladybird Expert books provide clear, accessible and authoritative introductions to subjects drawn from science, history and culture. Other books currently available in the Ladybird Expert series include: · Climate Change · Evolution For an adult readership, the Ladybird Expert series is produced in the same iconic small format pioneered by the original Ladybirds. Each beautifully illustrated book features the first new

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illustrations produced in the original Ladybird style for nearly forty years.

Quantum Mechanics (A Ladybird Expert Book)

a curious question for every day of the year

A Guide to Home-scale Permaculture

Now You're Talking

What It Is, Where We Are, and Where We Are
Going

Concepts, Methodologies, Tools, and
Applications

AI

"An absolute delight" - David Walliams "One of the best kids

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books I have ever had the pleasure of reading" - Pandora Sykes "Truly ace and answers every question your children may ever need answered" - Sophie Dahl A collection of 366 curious questions asked by children from around the world, based on the award-winning podcast by original QI Elf, Molly Oldfield. How much bamboo can a giant panda eat? Do aliens exist? What we would do if we didn't have a prime minister? Why do hammerhead sharks have such strange-shaped heads? Find out the answers to these curious questions and much, much more! Ponder where ideas come from with award-winning illustrator, Rob Biddulph. Find out why you taste things differently when you have a cold with Michelin star chef, Heston Blumenthal. Learn about everything from how astronauts see in the dark to what the

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biggest dinosaur was with experts from the Natural History Museum. Fascinating facts are accompanied by gorgeous illustrations making the perfect gift for Christmas. Whether you read a question a day, or dip into it whenever you are feeling curious, this is a book to treasure and share all year round. Illustrated by Momoko Abe, Kelsey Buzzell, Beatrice Cerocchi, Alice Courtley, Sandra de la Prada, Grace Easton, Manuela Montoya Escobar, Richard Jones, Lisa Koesterke, Gwen Millward, Sally Mullaney, and Laurie Stansfield. Praise for Everything Under the Sun: 'Trivia fans will relish Everything Under the Sun' - The Guardian "A wonderful gift for families" - Evening Standard "This is a book to treasure all year round" - My Baba "As cute as it is educational" - Babyccino Kids "A wonderful collection of 366 curious

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questions about everything from science to nature, dinosaurs to space" - Scottish Sun "Simply mesmerising compendium" - Waterstones "A beautiful gem of a book" - BookTrust "Fascinating for anyone who opens it" - Red magazine

Have you ever thought that computer science should include more dragons and wizards? Computational Fairy Tales introduces principles of computational thinking, illustrating high-level computer science concepts, the motivation behind them, and their application in a non-computer—fairy tale—domain. It's a quest that will take you from learning the basics of programming in a blacksmith's forge to fighting curses with recursion. Fifteen seers delivered the same prophecy, without so much as a single

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minstrel to lighten the mood: an unknown darkness threatens the kingdom. Suddenly, Princess Ann finds herself sent forth alone to save the kingdom. Leaving behind her home, family, and pet turtle Fido, Princess Ann must face goblin attacks, magical curses, arrogant scholars, an unpleasant oracle, and rude Boolean waiters. Along the way she must build a war chest of computational knowledge to survive the coming challenge.

The applications of Artificial Intelligence lie all around us; in our homes, schools and offices, in our cinemas, in art galleries and - not least - on the Internet. The results of Artificial Intelligence have been invaluable to biologists, psychologists, and linguists in helping to understand the processes of memory, learning, and language from a fresh

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angle. As a concept, Artificial Intelligence has fuelled and sharpened the philosophical debates concerning the nature of the mind, intelligence, and the uniqueness of human beings. Margaret A. Boden reviews the philosophical and technological challenges raised by Artificial Intelligence, considering whether programs could ever be really intelligent, creative or even conscious, and shows how the pursuit of Artificial Intelligence has helped us to appreciate how human and animal minds are possible.

Artificial intelligence has long been a mainstay of science fiction and increasingly it feels as if AI is entering our everyday lives, with technology like Apple ' s Siri now prominent, and self-driving cars almost upon us. But what do we actually mean when we talk about ' AI ' ? Are the

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sentient machines of 2001 or The Matrix a real possibility or will real-world artificial intelligence look and feel very different? What has it done for us so far? And what technologies could it yield in the future? AI expert Yorick Wilks takes a journey through the history of artificial intelligence up to the present day, examining its origins, controversies and achievements, as well as looking into just how it works. He also considers the future, assessing whether these technologies could menace our way of life, but also how we are all likely to benefit from AI applications in the years to come. Entertaining, enlightening, and keenly argued, this is the essential one-stop guide to the AI debate.

Plate Tectonics: A Ladybird Expert Book
Once Upon an Algorithm

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Climate Change (A Ladybird Expert Book)

Read in Case of Political Apocalypse

Decline and Fall

A Brief History of Artificial Intelligence

(WW2 #8)

How will artificial intelligence change our world within twenty years? A WALL STREET JOURNAL, WASHINGTON POST, AND FINANCIAL TIMES BEST BOOK OF THE YEAR • “This inspired collaboration between a pioneering technologist and a visionary writer of science fiction offers bold and urgent insights.”—Yann LeCun, winner of the Turing

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Award; chief AI scientist, Facebook “Amazingly entertaining . . . Lee and Chen take us on an immersive trip through the future. . . . Eye-opening.”—Mark Cuban AI will be the defining development of the twenty-first century. Within two decades, aspects of daily human life will be unrecognizable. AI will generate unprecedented wealth, revolutionize medicine and education through human-machine symbiosis, and create brand-new forms of communication and entertainment. In liberating us from routine work, however, AI will also challenge the organizing principles of our economic

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and social order. Meanwhile, AI will bring new risks in the form of autonomous weapons and smart technology that inherits human bias. AI is at a tipping point, and people need to wake up—both to AI's radiant pathways and its existential perils for life as we know it. In this provocative, utterly original work, Kai-Fu Lee, the former president of Google China and bestselling author of *AI Superpowers*, teams up with celebrated novelist Chen Qiufan to imagine our world in 2041 and how it will be shaped by AI. In ten gripping short stories, they introduce readers to an array of eye-opening 2041 settings, such as:

- In San

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Francisco, the “job reallocation” industry emerges as deep learning AI causes widespread job displacement

- In Tokyo, a music fan is swept up in an immersive form of celebrity worship based on virtual reality and mixed reality
 - In Mumbai, a teenage girl rebels when AI’s crunching of big data gets in the way of romance
 - In Seoul, virtual companions with perfected natural language processing (NLP) skills offer orphaned twins new ways to connect
 - In Munich, a rogue scientist draws on quantum computing, computer vision and other AI technologies in a revenge plot that imperils the world
- By gazing toward a not-so-distant horizon,

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AI 2041 offers urgent insights into our collective future—while reminding readers that, ultimately, humankind remains the author of its destiny. Introduces more than two hundred words, including foods, number, shapes, colors, and feelings. Part of the new Ladybird Expert series, Witchcraft is an accessible, authoritative and captivating introduction to the magical myths that have coloured the popular imagination for centuries. Written by celebrated historian and broadcaster Dr Suzannah Lipscomb, Witchcraft explores the moment in history when witches were perceived to be especially

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dangerous: the famous witch hunts between 1450 and 1750. You'll learn how the figure of the witch remains culturally relevant. In horror films, TV shows and pop culture, the figure of the witch retains her potency to attract and repel. Witch hunts in one form or another have persisted for thousands of years. Understanding why people were and continue to be persecuted for witchcraft matters now, more than ever.

Part of the ALL-NEW LADYBIRD EXPERT SERIES
'Brought evocatively to life' HISTORY REVEALED -
Was there really a Trojan War? - What makes a
Homeric hero? - How did Odysseus defeat the

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Cyclops? IMMERSE yourself in the epic adventures of the Ancient Greek gods and heroes. Filled with daring feats, battles and terrifying monsters, the poems and the stories told within them raise complex questions about fate, death and forgiveness that are still debated today. MIGHTY HEROES AND MEDDLING GODS Written by the winner of the Classical Association Prize 2020, Daisy Dunn's Homer is a fascinating introduction to these ancient stories and their truly timeless themes.

IFIP WG 9.7 International Workshop on the History of Computing, HC 2018, Held at the 24th IFIP World

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Computer Congress, WCC 2018, Poznań, Poland,
September 19–21, 2018, Revised Selected Papers

Everything Under the Sun

Human Conversation from the Neanderthals to
Artificial Intelligence

Algorithmic Puzzles

A Ladybird Expert Book

Witchcraft: A Ladybird Expert Book

Discover how our planet works from the inside out

**Artificial Intelligence is a clear, simple
and entertaining introduction to intelligent
machines and the humans that program them.**

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Written by computer scientist Michael Wooldridge, *Artificial Intelligence* chronicles the development of computers that 'think' from Turing's primitive chatbots to today's digital assistants like Siri and Alexa. AI is not something that awaits us in the future. Inside you'll learn how we have come to rely on embedded AI software and what a society of ubiquitous AI might look like. Part of the new Ladybird Expert series, *Evolution* is a clear, simple and entertaining introduction to Charles Darwin's pioneering and revolutionary theory of how all life changes through natural selection. Written by

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broadcaster, prize-winning author and geneticist Professor Steve Jones, it explores the extraordinary diversity of life on our planet through the complex interactions of one very simple theory. You'll discover the common origins of dogs and Brussels sprouts, how it is we're all mutants, where wings, ears and tails came from, why sex is good for you, how some dinosaurs evolved and survived, and why human evolution may finally have stopped. Written by the leading lights and most outstanding communicators in their fields, the Ladybird Expert books provide clear, accessible and authoritative

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introductions to subjects drawn from science, history and culture. Other books currently available in the Ladybird Expert series include: · Climate Change · Quantum Mechanics For an adult readership, the Ladybird Expert series is produced in the same iconic small format pioneered by the original Ladybirds. Each beautifully illustrated book features the first new illustrations produced in the original Ladybird style for nearly forty years.

Part of the ALL-NEW LADYBIRD EXPERT SERIES.

_____ Who discovered genetics? How does gene inheritance work? Is DNA common to

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all living things? We inherit CODES from our parents. And these codes are written in the molecule DNA. This DNA means that we RESEMBLE each other, namely our families. This raises so many questions such as how does DNA influence evolution? How was it discovered? And what does it mean for the future of the human race? Discover the answers and more inside Adam Rutherford's Ladybird Expert - Genetics, the thrilling and accessible account that explains race and genetics, whether it is our DNA or the environment that influences us most, what are our chances of being related to royalty, genetic engineering

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and much more . . .

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What is pain and can we measure it? - What is chronic pain and can we treat it? - Can we make pain pleasant? UNDERSTAND the causes and the reasons for pain. This complex, subjective but vital perception is experienced by the entire animal kingdom. We may not enjoy feeling it, but living without pain would be dangerous - it is our body's way of telling us when something isn't right. YOUR BODY'S BUILT IN ALARM SYSTEM Written by Professor of Anaesthetic Neuroscience at the University of Oxford, Irene Tracey, PAIN is

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an accessible and fascinating illustrated
introduction to one of our body's most
important sensory and emotional experiences.

Nonlinear Time Series Analysis with R

The AI Book

Computational Fairy Tales

Life on the Edge

Youniverse: A Short Guide to Modern Science

An Introduction to MultiAgent Systems

The War in Italy: A Ladybird Expert Book

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SERIES. _____ Are other animals, or
even plants, conscious? Can we create

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conscious robots? Are we able to assume the consciousness of someone else? We all experience the world differently. REALITY is shaped by our individual memories. So we respond to THE WORLD in our own ways. Our UNIQUE EXPERIENCE underpins what it means to be CONSCIOUS. This raises so many questions such as where does consciousness live? And what is it for? Discover the answers and more inside Hannah Critchlow's Ladybird Expert - Consciousness, the thrilling and accessible account that explains what it means to be conscious -

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from what defines it, to questioning the existence of free will.

*** PRE-ORDER YOUR COPY NOW *** - Why did the Allies decide to invade Southern Italy? - How did the weather and Italian terrain complicate the fighting? - How did General Mark Clark's Allied Armies win the final battle? Discover the mounting conflict and complex campaigns of the war in Italy. From Operation HUSKY to Clark's final offensive, the Allied campaign tightened the noose around Nazi Germany and saw the end of Italian Fascism, though it was at a

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cost of high civilian casualty and
destruction. AN EPIC OF GRIT,
DETERMINATION AND SACRIFICE Written by
historian, author and broadcaster James
Holland and with immersive illustrations
by Keith Burns, THE WAR IN ITALY 1943-1945
is an accessible and enthralling
introduction to these critical battles and
their impact on the outcome of World War
II

Part of the ALL-NEW Ladybird Expert
series. Discover in this accessible and
authoritative introduction the fundamental

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theory of how our dynamic planet works. Written by the celebrated geologist, academic and popular science presenter Iain Stewart, *Plate Tectonics* explores the Earth as a planetary machine and investigates the people and ideas that changed the way we look at the world. You'll learn about the make up of the Earth in the past and the present, from monsoon-like currents in our planet's radioactive interior to magnetic force lines and what the planet would look like without water. - Our planet as an active

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living system - The planetary force field
- Fault lines that cross continents - How
plates tectonics protects life on Earth -
And much more . . . Written by the leading
lights and most outstanding communicators
in their fields, the Ladybird Expert books
provide clear, accessible and
authoritative introductions to subjects
drawn from science, history and culture.
For an adult readership, the Ladybird
Expert series is produced in the same
iconic small hardback format pioneered by
the original Ladybirds. Each beautifully

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illustrated book features the first new illustrations produced in the original Ladybird style for nearly forty years. How is academia portrayed in children's literature? This Element ambitiously surveys fictional professors in texts marketed towards children, who are overwhelmingly white and male, tending to be elderly scientists. Professors fall into three stereotypes: the vehicle to explain scientific facts, the baffled genius, and the evil madman. By the late twentieth century, the stereotype of the

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male, mad, muddlehead, called Professor SomethingDumb, is formed in humorous yet pejorative fashion. This Element provides a publishing history of the role of academics in children's literature, questioning the book culture which promotes the enforcement of stereotypes regarding intellectual expertise in children's media. This title is also available, with additional material, as Open Access.

Simple Navigation for Everyone

Æthelflæd: A Ladybird Expert Book

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Artificial Intelligence

Shackleton (A Ladybird Expert Book)

The Coming of Age of Quantum Biology

Sunfall

Gaia's Garden

Part of the new Ladybird Expert series, Shackleton is a clear, simple and enlightening introduction to perhaps the most extraordinary survival stories of all time. Polar explorer Ben Saunders draws on his own experience of the Antarctic to bring to life the history, dangers and challenges of Shackleton's Endurance expedition. Inside, you'll discover how Shackleton, by successfully bringing all his men home in the face of near insurmountable odds, earned his reputation as

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one of the greatest leaders in history. Written by the leading lights and most outstanding communicators in their fields, the Ladybird Expert books provide clear, accessible and authoritative introductions to subjects drawn from science, history and culture. Other books currently available in the Ladybird Expert series include: · Climate Change · Quantum Mechanics · Evolution · Battle of Britain For an adult readership, the Ladybird Expert series is produced in the same iconic small hardback format pioneered by the original Ladybirds. Each beautifully illustrated book features the first new illustrations produced in the original Ladybird style for nearly forty years.

'I propose to consider the question, 'Can machines think?' Alan

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Turing (1950) Part of the ALL-NEW Ladybird Expert series. This book is for everyone living in the age of Artificial Intelligence. And this is an accessible and authoritative introduction to one of the most important conversations of our time . . . Written by computer scientist Michael Wooldridge, *Artificial Intelligence* chronicles the development of intelligent machines, from Turing's dream of machines that think, to today's digital assistants like Siri and Alexa. AI is not something that awaits us in the future. Inside you'll learn how we have come to rely on embedded AI software and what a world of ubiquitous AI might look like. What's inside? - The British mathematician Alan Turing - Can machines 'understand'? - Logical and Behavioural AI - The reality of AI

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today - AI tomorrow - And much more . . . For an adult readership, the Ladybird Expert series is produced in the same iconic small hardback format pioneered by the original Ladybirds. Each beautifully illustrated book features the first new illustrations produced in the original Ladybird style for nearly forty years.

This extensively revised and expanded edition broadens the reach and depth of the permaculture approach for urban and suburban gardeners. The text's message is that working with nature, not against it, results in more beautiful, abundant, and forgiving gardens.

'Excellent, exactly how good science fiction should be-gripping story, beautifully told, while at the same time being

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scientifically well-informed.' tweeted RICHARD DAWKINS. 'Reminiscent of vintage Arthur C. Clarke . . . has a chilling, nail-biting authenticity' said JAMES LOVEGROVE in the Financial Times. From renowned theoretical physicist, broadcaster and author Jim Al-Khalili, comes this thrilling debut novel drawing on cutting-edge science and set in a near-future full of dazzling technologies. 2041 and the world as we know it grinds to a halt. Our planet seems to be turning against itself - it would appear that the magnetic field, that protects life on Earth from deadly radiation from space, is failing . . . Desperate to quell the mass hysteria that would surely follow, world governments have concealed this rapidly emerging Armageddon. But a young Iranian hacktivist stumbles across

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the truth, and it becomes a race against time to reactivate the earth's core using beams of dark matter. As a small team of brave and brilliant scientists battle to find a way of transforming theory into practice, they face a fanatical group intent on pursuing their own endgame agenda- for they believe mankind to be a plague upon this earth and will do anything, commit any crime, to ensure that the project fails . . . And so bring about humanity's end.

AI 2041

Consciousness: A Ladybird Expert Book

Academia and Children's Literature

Histories of Computing in Eastern Europe

Ten Visions for Our Future

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Evolution (A Ladybird Expert Book)

Courage, Manliness and the Impersonal Good

Nonlinear Time Series Analysis with R provides a practical guide to emerging empirical techniques allowing practitioners to diagnose whether highly fluctuating and random appearing data are most likely driven by random or deterministic dynamic forces. It joins the chorus of voices recommending 'getting to know your data' as an essential preliminary evidentiary step in modelling. Time series are often highly fluctuating

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with a random appearance. Observed volatility is commonly attributed to exogenous random shocks to stable real-world systems. However, breakthroughs in nonlinear dynamics raise another possibility: highly complex dynamics can emerge endogenously from astoundingly parsimonious deterministic nonlinear models. Nonlinear Time Series Analysis (NLTS) is a collection of empirical tools designed to aid practitioners detect whether stochastic or deterministic dynamics most likely drive observed

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complexity. Practitioners become 'data detectives' accumulating hard empirical evidence supporting their modelling approach. This book is targeted to professionals and graduate students in engineering and the biophysical and social sciences. Its major objectives are to help non-mathematicians--with limited knowledge of nonlinear dynamics--to become operational in NLTS; and in this way to pave the way for NLTS to be adopted in the conventional empirical toolbox and core coursework of the targeted disciplines.

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Consistent with modern trends in university instruction, the book makes readers active learners with hands-on computer experiments in R code directing them through NLTS methods and helping them understand the underlying logic. The computer code is explained in detail so that readers can adjust it for use in their own work. The book also provides readers with an explicit framework--condensed from sound empirical practices recommended in the literature--that details a step-by-step

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procedure for applying NLTS in real-world data diagnostics.

How Hansel and Gretel, Sherlock Holmes, the movie Groundhog Day, Harry Potter, and other familiar stories illustrate the concepts of computing. Picture a computer scientist, staring at a screen and clicking away frantically on a keyboard, hacking into a system, or perhaps developing an app. Now delete that picture. In *Once Upon an Algorithm*, Martin Erwig explains computation as something that takes place beyond electronic

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computers, and computer science as the study of systematic problem solving. Erwig points out that many daily activities involve problem solving. Getting up in the morning, for example: You get up, take a shower, get dressed, eat breakfast. This simple daily routine solves a recurring problem through a series of well-defined steps. In computer science, such a routine is called an algorithm. Erwig illustrates a series of concepts in computing with examples from daily life and familiar stories. Hansel and Gretel, for example,

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execute an algorithm to get home from the forest. The movie Groundhog Day illustrates the problem of unsolvability; Sherlock Holmes manipulates data structures when solving a crime; the magic in Harry Potter's world is understood through types and abstraction; and Indiana Jones demonstrates the complexity of searching. Along the way, Erwig also discusses representations and different ways to organize data; “intractable” problems; language, syntax, and ambiguity; control structures, loops, and the halting

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problem; different forms of recursion; and rules for finding errors in algorithms. This engaging book explains computation accessibly and shows its relevance to daily life. Something to think about next time we execute the algorithm of getting up in the morning.

Part of the new Ladybird Expert series, Climate Change is a clear, simple and enlightening introduction to one of the most important issues facing our world today. From HRH The Prince of Wales, environmentalist Tony Juniper and climate

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scientist Dr Emily Shuckburgh, it explains the history, dangers and challenges of global warming and explores possible solutions with which to reduce its impact. You'll learn about the causes and consequences of climate disruption; heatwaves, floods and other extreme weather; disappearing wildlife; acid oceans; the benefits of limiting warming; sustainable farming, new clean technologies and the circular economy. Written by the leading lights and most outstanding communicators in their fields,

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This book constitutes the thoroughly refereed conference proceedings of the 7th International Conference on Multi-disciplinary Trends in Artificial Intelligence, MIWAI 2013, held in Krabi, Thailand, in December 2013. The 30 full papers were carefully reviewed and selected from 65 submissions and cover topics such as cognitive science, computational intelligence, computational philosophy, game theory, machine learning, multi-agent systems, natural language, representation and reasoning, speech,

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vision and the web.

The Story of AI

How Stories Explain Computing

Genetics

Everything you need to know about the
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*'Optimism, mojo, complete bollocks.
That's what the country is crying out
for.' There is now only one certainty
in life. When things can't possibly get
any worse, they absolutely will. And*

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so, after three years of Maybot malfunctioning and Brexit bungling, welcome to BoJo the clown's national circus - where fun for literally none of the family is guaranteed. Fear not, however: Decline and Fail is your personal survival guide to the ongoing political apocalypse. This unremittingly entertaining collection of John Crace's lifegiving political sketches will get you through the darkest of days - or failing that, will

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at least make you laugh a bit. Miss it at your peril...

Part of the new Ladybird Expert series, Plato's Republic is an accessible, authoritative, and timely introduction to the influential dialogue that helped shape all Western literature and philosophy. Written by distinguished philosopher and professor Angie Hobbs, Plato's Republic explores the age-old dilemma: Why should I be just? What is a just society, and how can it be

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created? With strikingly relevant questions such as: How can women's potential be actualized? How are democracies subverted by demagogues and tyrants? How dangerous are 'alternative facts' and what can we do about them? This text is still essential reading.