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Information—Consciousness—Reality Jun 19 2021 This open access book chronicles the rise of a new scientific paradigm offering novel insights into the age-old enigmas of existence. Over 300 years ago, the human mind discovered the machine code of reality: mathematics. By utilizing abstract thought systems, humans began to decode the workings of the cosmos. From this understanding, the current scientific paradigm emerged, ultimately discovering the gift of technology. Today, however, our island of knowledge is surrounded by ever longer shores of ignorance. Science appears to have hit a dead end when confronted with the nature of reality and consciousness. In this fascinating and accessible volume, James Glattfelder explores a radical paradigm shift uncovering the ontology of reality. It is found to be information-theoretic and participatory, yielding a computational and programmable universe.

Spy Games Mar 05 2020 Since the mid-nineteenth century, the main drivers of clandestine activity have been wars, crime, and international espionage. The need to obtain and pass along secret information exists so that one group can gain dominance over another, whether through victory in conflicts, seizure of land, or stealing money. Spies may be a constant, but so are the code breakers, those hardworking heroes who use their intelligence and drive to overcome whatever challenges arise from enemies or thieves. This comprehensive collection of New York Times coverage gives a behind-the-scenes look at the high stakes drama created by dangerous secrets, with media literacy terms and questions included to further draw readers in.

Psychoanalytic Field Theory Oct 31 2019 Written by one of the world's renowned Bionian Field Theory scholars, this foundational volume provides a thorough introduction to all facets of psychoanalytic field theory, one of the most lively and original currents of thought in contemporary psychoanalysis, to offer new answers to age-old questions around how psychic change occurs. With clinical examples to illuminate key themes of therapeutic effectiveness, current controversies, and future developments, the book presents a radically intersubjective view of the analytic process that focuses on the plane of unconscious communication common to both analyst and patient, moving beyond the I/you division to access the shared substance of the psyche. It centers the unconscious not as a hellish region of the psyche but as an important function of the personality that gives meaning to emotional experience. Offering clear expositions of complex concepts and linking to more detailed sources of information, this book is important reading for all clinicians, trainees, and students interested in contemporary psychoanalysis.

Proceedings of the International Field Exploration and Development Conference 2021 Jul 29 2019 This book focuses on reservoir surveillance and management, reservoir evaluation and dynamic description, reservoir production stimulation and EOR, ultra-tight reservoir, unconventional oil and gas resources technology, oil and gas well production testing, and geomechanics. This book is a compilation of selected papers from the 11th International Field Exploration and Development Conference (IFEDC 2021). The conference not only provides a platform to exchanges experience, but also promotes the development of scientific research in oil & gas exploration and production. The main audience for the work includes reservoir engineer, geological engineer, enterprise managers, senior engineers as well as professional students.

Mathematics in Popular Culture Feb 13 2021 Mathematics has maintained a surprising presence in popular media for over a century. In recent years, the movies Good Will Hunting, A Beautiful Mind, and Stand and Deliver, the stage plays Breaking the Code and Proof, the novella Flatland and the hugely successful television crime series NUMB3RS all weave mathematics prominently into their storylines. Less obvious but pivotal references to the subject appear in the blockbuster TV show Lost, the cult movie The Princess Bride, and even Tolstoy's War and Peace. In this collection of new essays, contributors consider the role of math in everything from films, baseball, crossword puzzles, fantasy role-playing games, and television shows to science fiction tales, award-winning plays and classic works of literature. Revealing the broad range of intersections between mathematics and mainstream culture, this collection demonstrates that even "mass entertainment" can have a hidden depth.

Mathematics Of Life Apr 17 2021 A new partnership of biologists and mathematicians is picking apart the hidden complexity of animals and plants to throw fresh light on the behaviour of entire organisms, how they interact and how changes in biological diversity affect the planet's ecological balance. Mathematics offers new and sometimes startling perspectives on evolution and how patterns of inheritance and population work out over time-scales ranging from millions to hundreds of years - as well as what's going on to change us right now. Ian Stewart, in characteristically clear and entertaining fashion, explores these and a whole range of pertinent issues, including how far genes control behaviour and the nature of life itself. He shows how far mathematicians and biologists are succeeding in tackling some of the most difficult scientific problems the human race has ever confronted and where their research is currently taking us.

V for Victory Jan 27 2022 The history of one of the most famous, successful and cheapest radio propaganda campaigns in history - the V for Victory campaign broadcast from London to occupied Europe

Lost at Sea Sep 30 2019 "We returned to our loved ones, but we were never the same again. Most were markedly changed. Young boys had become mature older men, aged beyond their years. All because of those days in the sea." For five days near the end of the Second World War, the USS Indianapolis disappeared from the map. After being hit by two torpedoes from a Japanese submarine, the warship sank within twelve minutes: 900 men out of a crew of 1200 managed to jump free. But by the time they were found, all that time later, the survivors had plummeted to just 316 men. The story of how that happened, and how the few that remained of her crew were eventually rescued from the mid-Pacific, have become one of the most enduring - and notorious - of wartime sea stories. But the meaning of the Indianapolis goes beyond a simple sinking. What makes the story of this American warship so compelling is that it was important in so many ways. It was the flagship of the fighting admiral Raymond Spruance, in 1943-44, during the crucial battles to control the central Pacific. It delivered the key components of the first atomic bomb dropped in anger, in this case on Hiroshima. It was the greatest single loss of life at sea in an American naval disaster at war. It goes down in history as the biggest attack by sharks on human beings ever recorded. It also became a huge scandal as naval authorities tried to cover-up what had gone wrong, and why the crew had been inadvertently left to die. This book is designed to interweave all these themes to provide a short and informative, and above all, readable, guide to the Indianapolis story, and to also tell the intertwined tales of the two men at the heart of the story: Captain Charles McVay and the man who sank the ship, Mochitsura Hashimoto.

Isaac Newton Aug 29 2019

V for Victory Jan 15 2021 "It seems strange now, looking back, that there was a time when the BBC - or an organisation paid for by the BBC - spoke to the people of Europe in this way. It seems even stranger that it gave them instructions in subversion and incited them to sabotage. There were parts of the establishment which never forgave this, and parts of the BBC too, but the legacy remains with us..." At the start of 1941, Britain stood alone and a great silence fell over occupied Europe. What were they thinking? Did they want to resist? Nobody knew - nor did they know how to build up the confidence of the occupied peoples so that, one day, they might want to fight back. The result was an extraordinary radio campaign, broadcast from London, and led by a man known to the world as 'Colonel Britton'. The V campaign caught the imagination of people around the world. It gave Churchill and de Gaulle their hand gestures. It inflamed what was already an almighty propaganda battle over the airwaves. But it was also furiously controversial in London, as rival government departments struggled to assert control over broadcasts to occupied Europe. This book tells the amazing story of how a radio campaign was able to shape resistance to the Nazis, and how and why - for a brief moment in time - Britain spoke fearlessly, passionately and positively to Europe.

The Search for a Theory of Cognition May 31 2022 The book brings into relief the variety of approaches and disciplines that have informed the quest for a theory of cognition. The center of interest are the historical, geographical, and theoretical peripheries of classic AI's mainstream research program. The twelve chapters bring back into focus the variety of strategies and theoretical questions that researchers explored while working toward a scientific theory of cognition and pre-cognition. The volume is organized in four parts, each one including three essays. The first one deals with cybernetics, the approach that may be considered as the most important periphery of classic AI research. The second part focuses on the geographical periphery of AI research. It examines how the theories and techniques developed on AI's home ground were translated into countries with different cultures and traditions: Italy, France, and the Soviet Union. The third part focuses on AI's periphery understood in the cultural and historical meaning of the term. It contains essays that locate some of the central concepts of AI, like representation and computability, within a broader philosophical (Descartes, Aristotle, Leibniz) and technical background (programming theory and

practice). The fourth and final part of the volume is focused directly on the limitation of Turing's classic computability theory and its possible alternatives, some of which were studied in the early years of AI's research (e.g. Ashby's re-entrant information model), while others have been intensely studied in recent times (quantum automata).

Programming Bitcoin Aug 10 2020 Dive into Bitcoin technology with this hands-on guide from one of the leading teachers on Bitcoin and Bitcoin programming. Author Jimmy Song shows Python programmers and developers how to program a Bitcoin library from scratch. You'll learn how to work with the basics, including the math, blocks, network, and transactions behind this popular cryptocurrency and its blockchain payment system. By the end of the book, you'll understand how this cryptocurrency works under the hood by coding all the components necessary for a Bitcoin library. Learn how to create transactions, get the data you need from peers, and send transactions over the network. Whether you're exploring Bitcoin applications for your company or considering a new career path, this practical book will get you started. Parse, validate, and create bitcoin transactions Learn Script, the smart contract language behind Bitcoin Do exercises in each chapter to build a Bitcoin library from scratch Understand how proof-of-work secures the blockchain Program Bitcoin using Python 3 Understand how simplified payment verification and light wallets work Work with public-key cryptography and cryptographic primitives

World Weavers Jul 09 2020 World Weavers is the first ever study on the relationship between globalization and science fiction. Scientific innovations provide citizens of different nations with a unique common ground and the means to establish new connections with distant lands. This study attempts to investigate how our world has grown more and more interconnected not only due to technological advances, but also to a shared interest in those advances and to what they might lead to in the future. Science fiction has long been both literally and metaphorically linked to the emerging global village. It now takes on the task of exploring how the cybernetic revolution might transform the world and keep it one step ahead of the real world, despite ever-accelerating developments. As residents of a world that is undeniably globalized, science-fictional and virtual, it is incumbent on us to fully understand just how we came to live in such a world, and to envisage where this world may be heading next. World Weavers represents one small but significant step toward achieving such knowledge.

Recapturing an Enchanted World Oct 12 2020 While the Free Churches rightly sought to cleanse the church of the abuses of sacramentalism, in that process they also set aside some of the church's historic practices and theology. In response to this liturgically thin space, Mennonite theologian and minister John D. Rempel considers the role of the sacraments and ritual within the Free Church tradition, helping us perceive the sacramental nature of our faith and worship.

How to Become a Freelance Writer Nov 24 2021 A brief guide to how to set out to be a freelance writer - not how to write, but how to find clients, manage money and live the life. A distillation of the life lessons by a freelance writer with a successful career for a quarter of a century.

Code-Breaker and Mathematician Alan Turing Mar 17 2021 Have you ever wished that you could do something heroic to help your country? When Alan Turing was a boy, he was fascinated by math and science. Later, Turing's math skills would help Great Britain win World War II. Turing's parents and teachers thought he'd be better off dropping math in favor of more gentlemanly studies, such as literature and Latin. But he stuck with it, and by the start of World War II in 1939, he was ready to take on the biggest challenge his country faced: Nazi Germany. Turing put his advanced knowledge of math to work decoding secret German messages. His ideas not only helped Great Britain turn the tide of the war--they provided the foundation upon which much of modern computing and artificial intelligence is based.

Tickbox Sep 22 2021 The word 'tickbox' emerged recently as a cynical angle on official or corporate incompetence. They had 'ticked the box' - people said - but failed to act. It is increasingly used to describe this gap between official spin and reality. Yet, says David Boyle in this powerful expose of tickbox culture, that is just the tip of a vast tickbox iceberg. The only people who remain blind to this gap are those rich or powerful enough to run the world, and behind Tickbox lies an insidious philosophy of automation and the misuse of data that weighs heavily on every one of us. It makes our public services less effective - and makes them soar in costs - it lies behind so many stark injustices and disasters, from Grenfell Tower to the deportation of the Windrush generation. Yet the system carries on, and grows in power and strengths - vacuuming up the resources of the NHS pursuing pointless targets or badgering us to reveal how much we had enjoyed our visit to their bank counter - because those who run the world remain committed to it. It is time we escaped the tentacles of Tickbox. Boyle suggests a series of ways out - starting with recognising the danger and calling it out for what it is - a massive failure, corroding our lives and our ability, as human beings, to act on the world.

Alan Turing Nov 05 2022

Bitcoin & Blockchain - Grundlagen und Programmierung Apr 05 2020 Erleben Sie die technische Revolution, die die Finanzwelt im Sturm erobert. Bitcoin & Blockchain – Grundlagen und Programmierung ist Ihr Leitfaden durch die scheinbar komplexe Welt von Bitcoin. Es vermittelt Ihnen das nötige Wissen, um am Internet des Geldes teilnehmen zu können und die Blockchain-Technologie zu verstehen. Ganz gleich, ob Sie die nächste Killer-App entwickeln, in ein Start-up investieren oder einfach mehr über die Technik erfahren wollen: Diese überarbeitete zweite Auflage enthält alle grundlegenden Informationen, die Sie für den Einstieg benötigen. Bitcoin, die erste erfolgreiche, dezentrale Kryptowährung, steht erst am Anfang, hat aber bereits eine mehrere Milliarden schwere Industrie geschaffen. Diese Industrie steht jedem, der das nötige Wissen und die Leidenschaft mitbringt, offen. Und dieses Buch vermittelt Ihnen die erforderliche Wissensgrundlage. Die zweite Auflage umfasst: eine ausführliche Einführung in Bitcoin und die ihr zugrundeliegende Blockchain – ideal für nichttechnische Leser, Investoren und Führungskräfte eine Erläuterung der technischen Grundlagen des Bitcoin und kryptografischer Währungen für Entwickler, Ingenieure sowie Software- und Systemarchitekten Details zum dezentralen Bitcoin-Netzwerk, seiner Peer-to-Peer-Architektur, dem Transaktionszyklus und den Sicherheitsprinzipien neue Entwicklungen wie Segregated Witness, Zahlungskanäle und das Lightning Network einen tiefen Einblick in Blockchain-Anwendungen und wie man die Grundbausteine dieser Plattform in übergeordneten Anwendungen nutzen kann Anwenderberichte, Analogien, Beispiele und Codeschnipsel, die die technischen Schlüssel-Konzepte illustrieren

Codebreakers' Victory Jun 07 2020 With exclusive interviews, a Signal Corps veteran tells the full story of how cryptography helped defeat the Axis powers, at Bletchley Park and beyond. For years, the story of the World War II codebreakers was kept a crucial state secret. Even Winston Churchill, himself a great advocate of Britain's cryptologic program, purposefully minimized their achievements in his history books. Now, though, after decades have passed, the true scope of the British and American cryptographers' role in the war has come to light. It was a role key to the Allied victory. From the Battle of Britain to the Pacific front to the panzer divisions in Africa, superior cryptography gave the Allies a decisive advantage over the Axis generals. Military intelligence made a significant difference in battle after battle. In *Codebreakers' Victory*, veteran cryptographer Hervie Haufler takes readers behind the scenes in this fascinating underground world of ciphers and decoders. This broad view represents the first comprehensive account of codebreaking during World War II. Haufler pulls together years of research, exclusive access to top secret files, and personal interviews to craft a captivating must-read for anyone interested in the behind-the-front intellect and perseverance that went into beating the Nazis and Japan.

A First Course in Artificial Intelligence Mar 29 2022 The importance of Artificial Intelligence cannot be over-emphasised in current times, where automation is already an integral part of industrial and business processes. A First Course in Artificial Intelligence is a comprehensive textbook for beginners which covers all the fundamentals of Artificial Intelligence. Seven chapters (divided into thirty-three units) introduce the student to key concepts of the discipline in simple language, including expert system, natural language processing, machine learning, machine learning applications, sensory perceptions (computer vision, tactile perception) and robotics. Each chapter provides information in separate units about relevant history, applications, algorithm and programming with relevant case studies and examples. The simplified approach to the subject enables beginners in computer science who have a basic knowledge of Java programming to easily understand the contents. The text also introduces Python programming language basics, with demonstrations of natural language processing. It also introduces readers to the Waikato Environment for Knowledge Analysis (WEKA), as a tool for machine learning. The book is suitable for students and teachers involved in introductory courses in undergraduate and diploma level courses which have appropriate modules on artificial intelligence.

Künstliche Intelligenz, Bewusstsein und Sprache May 07 2020

30-Second Great Inventions Oct 24 2021 Universal change is often the result of an individual's lightbulb moment – an invention that triggers a ripple effect across countries, continents, or even out into space. *Great Inventions in 30 Seconds* looks at fifty of these groundbreaking innovations – great ideas that really did change the world. It covers a wide range, from early days (the wheel) through materials (the invention of steel, for example, or plastic) to communications (the alphabet, the printing press, the Worldwide Web) and the conveniences of (relatively) modern daily life (refrigeration, indoor plumbing, central heating). It's a sharp reminder that almost every aspect of life in the second decade of the 21st century is the result of someone's bright idea, – and one that they acted on to turn it into a viable invention. Along the way you'll learn all about the personalities behind the inventions: revealing and intriguing in equal measure.

Skill, Technology and Enlightenment: On Practical Philosophy Jul 21 2021 Skill, Technology and Enlightenment: On practical Philosophy explores the problems of developing a perspective on technology and society, on the limits of enlightenment, the relationship between cultural criticism and the epistemology of practical knowledge, tacit knowledge and a non-elitist conception of expertise, the role of the arts as a basis for reflection, and many other relevant topics. The 1993 international conference in Stockholm was - among other things - part of a process of building a curriculum for an international graduate programme in the area of culture, skill and technology, a process that has been under way since 1989.

Computing with Quantum Cats Sep 10 2020 The quantum computer is no longer the stuff of science fiction. Pioneering physicists are on the brink of unlocking a new quantum universe which provides a better representation of reality than our everyday experiences and common sense ever could. The birth of quantum computers – which, like Schrödinger's famous 'dead and alive' cat, rely on entities like electrons, photons or atoms existing in two states at the same time – is set to turn the computing world on its head. In his fascinating study of this cutting-edge technology, John Gribbin updates his previous views on the nature of quantum reality, arguing for a universe of many parallel worlds where 'everything is real'. Looking back to Alan Turing's work on

the Enigma machine and the first electronic computer, Gribbin explains how quantum theory developed to make quantum computers work in practice as well as in principle. He takes us beyond the arena of theoretical physics to explore their practical applications – from machines which learn through ‘intuition’ and trial and error to unhackable laptops and smartphones. And he investigates the potential for this extraordinary science to create a world where communication occurs faster than light and teleportation is possible.

Original Intelligence Jun 27 2019 "In Original Intelligence, leading experimental psychologist David Premack and his collaborator Ann Premack present a joint effort in teasing out exactly what are the deep characteristics of the human mind as they draw upon their years of brilliant experimentation."--BOOK JACKET.

The Speedicut Memoirs Feb 02 2020 As Europe see-saws between war and peace, Charles Speedicut finds himself involved in a series of clandestine missions for both the British Secret Intelligence Service and the equally secretive Brotherhood of the Sons of Thunder. From the concentration camp at Dachau, where Book 5 of The Speedicut Memoirs opens, via Whitehall, Czechoslovakia, Poland, Bavaria, Switzerland and France, Speedicut is involved in plots to frustrate the British government's policy of appeasement, assassinate Hitler, obtain an ENIGMA machine and – as German tanks roll through the Low Countries into France – to rescue vitally important stocks of gold and diamonds, France's leading scientists and the world's entire stock of 'heavy water'. "I attribute the failure of appeasement to the interference of Charles Speedicut. In consequence, I blame him for the Second World War" The Rt Hon Neville Chamberlain "Speedicut will be the death of me, unless I eliminate him first – as I intend to." SS-Obergruppenführer und General der Polizei Reinhard Heydrich

Information und ihre Bedeutung in der Natur Sep 03 2022 Dieses Buch begibt sich auf die spannende Suche nach dem Wesen der Information in der Natur. Es setzt sich mit der Frage auseinander, wie die Information in die Welt kam und sich in ihr entwickelte. Der Leser erfährt, welche Rolle die Bedeutung von Information als Gegenstand wissenschaftlicher Betrachtungen einnahm und heute einnimmt. Dabei macht die interdisziplinäre Behandlung von naturwissenschaftlichen und philosophischen Fragen den besonderen Reiz des Buches aus: Der Autor spannt einen weiten Bogen von der Informations- und Informatiktheorie über die Thermodynamik, die Quantenphysik und die Molekularbiologie bis hin zur Erkenntnistheorie. Dabei werden vielfältige und insbesondere auch aktuelle Forschungsergebnisse beleuchtet. Abschließend wird auf der Grundlage der Erkenntnisse in diesen Disziplinen eine neue und erweiterte Sicht auf die Information als Träger von Bedeutung begründet und modellhaft beschrieben. Besonders aufsehenerregende wissenschaftliche Durchbrüche und verblüffende Experimente spielen dabei eine Rolle. In der Mitte des letzten Jahrhunderts entstand in Wissenschaftskreisen ein neues Verständnis von Information, mit zentralen Leitfiguren wie Claude E. Shannon und Alan Turing. Hervorragende Naturwissenschaftler wie Erwin Schrödinger und Max Delbrück lieferten wichtige Impulse zu der seitdem andauernden kontroversen Diskussion über das Wesen der Information. Die Vielfalt der behandelten Themen bedeutet nicht nur für Experten, sondern auch für naturwissenschaftlich und philosophisch Interessierte eine spannende Lektüre und intellektuelles Vergnügen.

Unlocking the Universe Oct 04 2022 Have you ever wondered how our universe began? Or what it takes to put humans on the moon? Do you know what happens in the microscopic world of a life-saving vaccine? What would you do if you could travel through space and time? Embark on the adventure of a lifetime in this beautiful collection of up-to-the-minute essays, mind-blowing facts and out-of-this-world colour photographs, by the world's leading scientists including Professor Stephen Hawking himself. This edition features brand-new content from Dr Mary Dobson: Plagues, Pandemics and Planetary Health. This unmissable volume was curated by Stephen and Lucy Hawking, whose series of children's books *George's Secret Key* was a global hit. George's stories are punctuated with fascinating real-life facts and insights from leading scientists and now this incredible non-fiction has been collected into one bumper volume, with new content from key scientific figures and up-to-the-minute facts and figures for readers in 2021. READERS LOVE UNLOCKING THE UNIVERSE: "Despite its scientific content the essays are written in a very accessible style and the many topics investigated which range from the physical explanations of the universe to earth science to robotics and future predictions. Highly recommended for curious minds from around 10 years upwards" - Sue Warren, Blogger "My 9 y.o. loves this book. We've previously discussed a lot of the concepts, but this seems to answer questions I hadn't thought of, but my son wanted to know"

War of Shadows Jul 01 2022 In this World War II military history, Rommel's army is a day from Cairo, a week from Tel Aviv, and the SS is ready for action. Espionage brought the Nazis this far, but espionage can stop them—if Washington wakes up to the danger. As World War II raged in North Africa, General Erwin Rommel was guided by an uncanny sense of his enemies' plans and weaknesses. In the summer of 1942, he led his Axis army swiftly and terrifyingly toward Alexandria, with the goal of overrunning the entire Middle East. Each step was informed by detailed updates on British positions. The Nazis, somehow, had a source for the Allies' greatest secrets. Yet the Axis powers were not the only ones with intelligence. Brilliant Allied cryptographers worked relentlessly at Bletchley Park, breaking down the extraordinarily complex Nazi code Enigma. From decoded German messages, they discovered that the enemy had a wealth of inside information. On the brink of disaster, a fevered and high-stakes search for the source began. *War of Shadows* is the cinematic story of the race for information in the North African theater of World War II, set against intrigues that spanned the Middle East. Years in the making, this book is a feat of historical research and storytelling, and a rethinking of the popular narrative of the war. It portrays the conflict not as an inevitable clash of heroes and villains but a spiraling series of failures, accidents, and desperate triumphs that decided the fate of the Middle East and quite possibly the outcome of the war.

Foundations of Software Science and Computational Structures Jan 03 2020 This book constitutes the refereed proceedings of the 14th International Conference on Foundations of Software Science and computational Structures, FOSSACS 2011, held in Saarbrücken, Germany, March 26—April 3, 2011, as part of ETAPS 2011, the European Joint Conferences on Theory and Practice of Software. The 30 revised full papers presented together with one full-paper length invited talk were carefully reviewed and selected from 100 submissions. The papers are organized in topical sections on coalgebra and computability, type theory, process calculi, automata theory, semantics, binding, security, and program analysis.

Turing's Delirium Aug 02 2022 Set in a near-future Bolivia, this "hybrid of cyberpunk and political thriller [is] sleek, brisk, and clever" (Entertainment Weekly). Set against a backdrop of advancing globalization, this award-winning, "fast-paced" literary thriller puts a cutting-edge digital spin on the age-old fight between the oppressed and the oppressor (The Miami Herald). The South American town of Río Fugitivo is on the verge of a social revolution—not a revolution of strikes and street riots, but a war waged electronically, in which computer viruses are the weapons and hackers the revolutionaries. In this war of information, the lives of a variety of characters become entangled: Kandinsky, the mythic leader of a group of hackers fighting the government and transnational companies; Albert, the founder of the Black Chamber, a state security firm charged with deciphering the secret codes used in the information war; and Miguel "Turing" Sáenz, the Black Chamber's most famous codebreaker, who begins to suspect his work is not as innocent as he once supposed. All converge to create a "propulsive" novel about personal responsibility and complicity in a world defined by the ever-increasing gulfs between the global and the local, government and society, the virtual and the real (Publishers Weekly, starred review). Turing's *Delirium* "combines the excitement of a political thriller with the intellectual ambition of a literary novel" (San Francisco Chronicle). "If William Gibson were a Bolivian, this might be the kind of novel he'd be writing." —Chicago Tribune

Brainscapes Dec 02 2019 Your brain is a collection of maps. That is no metaphor: scrawled across your brain's surfaces are actual schematic images of the sights, sounds, and actions that hold the key to your survival. Scientists first began uncovering these maps over a century ago, but we are only now beginning to unlock their secrets. Our inner cartography distorts and shapes our experience of the world, supporting complex thought, and making technology-enabled mind-reading a reality. The maps in our brain raise important questions about what is real, what is fair, and what is private. They shine a light on our past and our possible futures, and invite us to view ourselves from a startling new perspective. In *Brainscapes*, Rebecca Schwarzlose combines unforgettable real-life stories, cutting-edge research, and vivid illustrations to reveal brain maps' surprising lessons about our place in the world - and the world's place within us.

Army of Metalloids Nov 12 2020 About the book: Who will win the race? Humans or Artificial Intelligence? Memory, problem-solving, learning, planning, language, reasoning, and perception are all cognitive functions that artificial intelligence (AI) and human intelligence investigate. Both of these have played significant roles in advancing cultures. In terms of their distinctions, AI is a human-created innovation that is designed to perform specific activities considerably faster and with less effort. Human intelligence, on the other hand, is better at multitasking and may include emotional aspects, human contact, and self-awareness in the cognitive process. Machine intelligence is another name for AI, which was established as an academic discipline in 1956, the same year that John McCarthy invented the term "artificial intelligence."

Unstructuring Chinese Society May 19 2021 Unstructuring Chinese Society is a culmination of long term field work and archival research that challenges existing theories of social organisation and cultural change. The book makes new sense of historical contradictions, political conflicts and deep seated social transformations that have underlined the experience of colonial rule and the practices of local institutions in Hong Kong over the past century. By focusing on the ongoing interactions of discourse, practices and global-local relations in cultural terms, Unstructuring Chinese Society puts forth a fresh perspective in the field of historical anthropology, while addressing ongoing critical concerns in postcolonial theory and our understanding of tradition and modernity.

Recapturing a Future for Space Exploration Aug 22 2021 More than four decades have passed since a human first set foot on the Moon. Great strides have been made in our understanding of what is required to support an enduring human presence in space, as evidenced by progressively more advanced orbiting human outposts, culminating in the current International Space Station (ISS). However, of the more than 500 humans who have so far ventured into space, most have gone only as far as near-Earth orbit, and none have traveled beyond the orbit of the Moon. Achieving humans' further progress into the solar system had proved far more difficult than imagined in the heady days of the Apollo missions, but the potential rewards remain substantial. During its more than 50-year history, NASA's success in human space exploration has depended on the agency's ability to effectively address a wide range of biomedical, engineering, physical science, and related obstacles—an achievement made possible by NASA's strong and productive commitments to life and physical sciences research for human space exploration, and by its use of human space exploration infrastructures for scientific discovery. The Committee for the Decadal Survey of Biological and Physical

Sciences acknowledges the many achievements of NASA, which are all the more remarkable given budgetary challenges and changing directions within the agency. In the past decade, however, a consequence of those challenges has been a life and physical sciences research program that was dramatically reduced in both scale and scope, with the result that the agency is poorly positioned to take full advantage of the scientific opportunities offered by the now fully equipped and staffed ISS laboratory, or to effectively pursue the scientific research needed to support the development of advanced human exploration capabilities. Although its review has left it deeply concerned about the current state of NASA's life and physical sciences research, the Committee for the Decadal Survey on Biological and Physical Sciences in Space is nevertheless convinced that a focused science and engineering program can achieve successes that will bring the space community, the U.S. public, and policymakers to an understanding that we are ready for the next significant phase of human space exploration. The goal of this report is to lay out steps and develop a forward-looking portfolio of research that will provide the basis for recapturing the excitement and value of human spaceflight—thereby enabling the U.S. space program to deliver on new exploration initiatives that serve the nation, excite the public, and place the United States again at the forefront of space exploration for the global good.

Cancelled! Dec 26 2021 The background to the strange collapse of rail services in Southern England and what it means for other services.

Recapturing Freedom Apr 29 2022 Recapturing Freedom is about the experience of long-term prisoners as they prepare for release. Dot Goulding shows the connection between the institutionalisation that strips inmates of their identity in order to make them tractable, and their subsequent, all-too-common failure to cope with life on the outside. Her book is based on extensive in-depth interviews with male and female prisoners. Recurring themes are the relentless surveillance and control to which prisoners are subjected, and the centrality of violence and brutalisation in the prison experience - group violence, sexual violence and, according to the interviewees, violence which is officially sanctioned. Recapturing Freedom shows why most long-term prisoners find freedom so hard to recapture - physically free but mentally still locked into a subculture of brutality, isolation and deprivation, it is most often prison that recaptures them. Goulding finishes her book with suggestions on how, taking account of the actual experiences of prisoners, this endless cycle of recidivism might be stopped.

Remains of the Way Feb 25 2022 A Brexit thriller where Adrian Matison, junior Treasury mandarin, follows the clues left by his friend, murdered on the Pilgrim's Way and discovers a forgotten government agency, founded in Henry VIII's time, is behind the efforts to leave Europe.

Turing's Legacy Dec 14 2020 During the second half of the twentieth century, the use of computers has transformed working life in the developed world. The National Physical Laboratory (NPL) is one of the cradles of this revolution. This book outlines its contribution to modern computing history, covering the vital role played by Alan Turing, the Pilot ACE and ACE computers developed from his plans, and the fertile marriage of computers and communications in the 1960s.

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