

# New Scientist



WEEKLY 28 September 2014

WHY THERE'S NO SUCH  
THING AS COMMON SENSE

A DARING PLAN TO  
REFREEZE THE ARCTIC

DID EARTH ONCE HAVE  
A RING LIKE SATURN'S?

THE BEST DRUGS FOR  
TREATING MIGRAINES

## THE UNCHARTED MICROBIOME

The shocking discovery that your brain is teeming  
with life – and what it means for your health

**PLUS** CRIME-FIGHTING RATS / THE CHEMISTRY OF CARAMEL /  
HOW TO TACKLE MATHS ANXIETY / SCUBA-DIVING LIZARDS

New Scientist 2015 01 31

**William Kilpatrick**



## **New Scientist 2015 01 31:**

*Under Surveillance* Randolph Lewis, 2017-11-01 An engaging alarming and enlightening book one that is certain to be among the most important books on surveillance in the twenty first century Siva Vaidhyanathan author of *Antisocial Media* Never before has so much been known about so many CCTV cameras TSA scanners NSA databases big data marketers predator drones stop and frisk tactics Facebook algorithms hidden spyware and even old fashioned nosy neighbors surveillance has become so ubiquitous that we take its presence for granted While many types of surveillance are pitched as ways to make us safer almost no one has examined the unintended consequences of living under constant scrutiny and how it changes the way we think and feel about the world In *Under Surveillance* Randolph Lewis offers a highly original look at the emotional ethical and aesthetic challenges of living with surveillance in America since 9 11 Taking a broad and humanistic approach Lewis explores the growth of surveillance in surprising places such as childhood and nature He traces the rise of businesses designed to provide surveillance and security including those that cater to the Bible Belt s houses of worship And he peers into the dark side of playful surveillance such as eBay s online guide to Fun with Surveillance Gadgets A worried but ultimately genial guide to this landscape Lewis helps us see the hidden costs of living in a control society in which surveillance is deemed essential to governance and business alike Written accessibly for a general audience *Under Surveillance* prompts us to think deeply about what Lewis calls the soft tissue damage inflicted by the culture of surveillance A sprightly tour down some of the surveillance society s most claustrophobic corridors Cory Doctorow New York Times bestselling author

*Climate Change* Bruce E. Johansen, 2017-09-15 This three volume set presents entries and primary sources that will impress on readers that what we do or don t do today regarding climate change will dramatically influence what life on this planet will be like for untold numbers of generations How are the behaviors of birds butterflies and other migratory animals connected to climate change What does the term thermal inertia mean and what does this geophysical effect have on predicting what the planet s future will be like What is the context for the effects we are seeing on various forms of animal life from migrating birds to polar bears to mosquitoes that transmit Zika and other diseases *Climate Change* An Encyclopedia of Science Society and Solutions combines entries describing Earth s variable climatic history references to scientific literature weather record data and selected primary documents to present readers with a comprehensive account of global warming s effects worldwide By examining verifiable quantitative information such as the frequency and intensity of hurricanes and changes in the hydrological cycle as well as clear patterns and trends of alternating droughts and deluges and wildfires melting ice and rising seas readers will be able to understand why scientists are so concerned about the future of our climate Researchers will benefit from detailed explanations of scientific topics such as thermal inertia feedbacks and tipping points and receive invaluable context on the role of energy use in climate change including automobiles and air travel Readers will learn about the role of China in the current global climate and in the future the widespread effects of climate

change on agriculture and how indigenous peoples' lives are being impacted from drought and the Navajos to hunters' lives in the Arctic. The work concludes with thought-provoking debates regarding potential solutions from wind power and solar power to geo-engineering. *Medical Research Ethics: Challenges in the 21st Century* Tomas Zima, David N.

Weisstub, 2023-01-01 This book provides a current review of Medical Research Ethics on a global basis. The book contains chapters that are historically and philosophically reflective and aimed to promote a discussion about controversial and foundational aspects in the field. An elaborate group of chapters concentrates on key areas of medical research where there are core ethical issues that arise both in theory and practice: genetics, neuroscience, surgery, palliative care, diagnostics, risk and prediction, security, pandemic threats, finances, technology, and public policy. This book is suitable for use from the most basic introductory courses to the highest levels of expertise in multidisciplinary contexts. The insights and research by this group of top scholars in the field of bioethics is an indispensable read for medical students in bioethics seminars and courses as well as for philosophy of bioethics classes in departments of philosophy, nursing faculties, law schools where bioethics is linked to medical law, experts in comparative law and public health, international human rights, and is equally useful for policy planning in pharmaceutical companies. **Advances in Diagnosis and Management of Phytonematodes** P. Parvatha

Reddy, 2024-02-06 *Advances in Diagnosis and Management of Phytonematodes* provides information on various aspects of diagnosis and eco-friendly nematode management. It explains at length nematode diagnosis, morphological, biochemical, and molecular, and management strategies, regulatory, physical, cultural, chemical, biological, host resistance, and integrated management methods. This book will be of immense value to the scientific community involved in teaching, research, and extension activities related to the diagnosis and management of phytonematodes. It is suitable for teaching both undergraduate and postgraduate courses in the field of plant protection. It can also serve as an advantageous reference to policymakers and practicing farmers. Print edition not for sale in India. *The Science and Technology of Growing Young* Sergey Young, 2021-08-24 Wall Street Journal, USA Today, and Publishers Weekly bestseller. The prospect of living to 200 years old isn't science fiction anymore. A leader in the emerging field of longevity offers his perspective on what cutting-edge breakthroughs are on the horizon as well as the practical steps we can take now to live healthily to 100 and beyond. In *The Science and Technology of Growing Young*, industry investor and insider Sergey Young demystifies the longevity landscape, cutting through the hype and showing readers what they can do now to live better for longer, and offering a look into the exciting possibilities that await us. By viewing aging as a condition that can be cured, we can dramatically revolutionize the field of longevity and make it accessible for everyone. Join Sergey as he gathers insights from world-leading health entrepreneurs, scientists, doctors, and inventors, providing a comprehensive look into the future of longevity in two horizons. *The Near Horizon of Longevity* identifies the technological developments that will allow us to live to 150, some of which are already in use, from AI-based diagnostics to gene editing and organ regeneration. *The Far Horizon of Longevity* offers a tour

of the future of age reversal and the exciting technologies that will allow us to live healthily to 200 from Internet of Bodies to digital avatars to AI brain integration In a bonus chapter Sergey also showcases 10 longevity choices that we already know and can easily implement to live to 100 distilling the science behind diet exercise sleep mental health and our environments into attainable habits and lifestyle hacks that anyone can adopt to vastly improve their lives and workplaces Combining practical advice with an incredible overview of the brave new world to come **The Science and Technology of Growing Young** redefines what it means to be human and to grow young

**Hacking Darwin** Jamie Metzl, 2019-04-23 A gifted and thoughtful writer Metzl brings us to the frontiers of biology and technology and reveals a world full of promise and peril Siddhartha Mukherjee MD New York Times bestselling author of *The Emperor of All Maladies* and *The Gene* A groundbreaking exploration of genetic engineering and its impact on the future of our species from leading geopolitical expert and technology futurist Jamie Metzl At the dawn of the genetics revolution our DNA is becoming as readable writable and hackable as our information technology But as humanity starts retooling our own genetic code the choices we make today will be the difference between realizing breathtaking advances in human well being and descending into a dangerous and potentially deadly genetic arms race Enter the laboratories where scientists are turning science fiction into reality In this captivating and thought provoking nonfiction science book Jamie Metzl delves into the ethical scientific political and technological dimensions of genetic engineering and shares how it will shape the course of human evolution Cutting edge insights into the field of genetic engineering and its implications for humanity s future Explores the transformative power of genetic technologies and their potential to reshape human life Examines the ethical considerations surrounding genetic engineering and the choices we face as a species Engaging narrative that delves into the scientific breakthroughs and real world applications of genetic technologies Provides a balanced perspective on the promises and risks associated with genetic engineering Raises thought provoking questions about the future of reproduction human health and our relationship with nature Drawing on his extensive background in genetics national security and foreign policy Metzl paints a vivid picture of a world where advancements in technology empower us to take control of our own evolution but also cautions against the pitfalls and ethical dilemmas that could arise if not properly managed *Hacking Darwin* is a must read for anyone interested in the intersection of science technology and humanity s future

**Electric Boats and Ships** Kevin Desmond, 2017-09-25 Electric propulsion for boats was developed in the early 19th century and despite the advent of the internal combustion engine continued with the perfecting of the modern turbo electric ship Sustainable and hybrid technologies pioneered in small inland watercraft toward the end of the 20th century have in recent years been scaled up to create integrated electric drives for the largest ocean going vessels This comprehensive history traces the birth and rebirth of the electric boat from 1835 to the present celebrating the Golden Age of electric launches 1880 1910

**The Patient Will See You Now** Eric Topol, 2016-10-25 The essential guide by one of America s leading doctors to how digital technology enables all of us to take

charge of our health A trip to the doctor is almost a guarantee of misery You ll make an appointment months in advance You ll probably wait for several hours until you hear the doctor will see you now but only for fifteen minutes Then you ll wait even longer for lab tests the results of which you ll likely never see unless they indicate further and more invasive tests most of which will probably prove unnecessary much like physicals themselves And your bill will be astronomical In *The Patient Will See You Now* Eric Topol one of the nation s top physicians shows why medicine does not have to be that way Instead you could use your smartphone to get rapid test results from one drop of blood monitor your vital signs both day and night and use an artificially intelligent algorithm to receive a diagnosis without having to see a doctor all at a small fraction of the cost imposed by our modern healthcare system The change is powered by what Topol calls medicine s Gutenberg moment Much as the printing press took learning out of the hands of a priestly class the mobile internet is doing the same for medicine giving us unprecedented control over our healthcare With smartphones in hand we are no longer beholden to an impersonal and paternalistic system in which doctor knows best Medicine has been digitized Topol argues now it will be democratized Computers will replace physicians for many diagnostic tasks citizen science will give rise to citizen medicine and enormous data sets will give us new means to attack conditions that have long been incurable Massive open online medicine where diagnostics are done by Facebook like comparisons of medical profiles will enable real time real world research on massive populations There s no doubt the path forward will be complicated the medical establishment will resist these changes and digitized medicine inevitably raises serious issues surrounding privacy Nevertheless the result better cheaper and more human health care will be worth it Provocative and engrossing *The Patient Will See You Now* is essential reading for anyone who thinks they deserve better health care That is for all of us

*The AfterGrief* Hope Edelman, 2020 A validating new approach to the long term grieving process that explains why we feel stuck why that s normal and how shifting our perception of grief can help us grow from the New York Times bestselling author of *Motherless Daughters* This is perhaps one of the most important books about grief ever written It finally dispels the myth that we are all supposed to get over the death of a loved one Claire Bidwell Smith author of *Anxiety The Missing Stage of Grief* Aren t you over it yet Anyone who has experienced a major loss in their past knows this question We ve spent years fielding versions of it both explicit and implied from family colleagues acquaintances and friends We recognize the subtle cues the slight eyebrow lift the soft startled Oh That long ago from those who wonder how an event so far in the past can still occupy so much precious mental and emotional real estate Because of the common but false assumption that grief should be time limited too many of us believe we re grieving wrong when sadness suddenly resurges sometimes months or even years after a loss *The AfterGrief* explains that the death of a loved one isn t something most of us get over get past put down or move beyond Grief is not an emotion to pass through on the way to feeling better Instead grief is in constant motion it is tidal easily and often reactivated by memories and sensory events and is re triggered as we experience life transitions anniversaries and other losses Whether we

want it to or not grief gets folded into our developing identities where it informs our thoughts hopes expectations behaviors and fears and we inevitably carry it forward into everything that follows Drawing on her own encounters with the ripple effects of early loss as well as on interviews with dozens of researchers therapists and regular people who've been bereaved New York Times bestselling author Hope Edelman offers profound advice for reassessing loss and adjusting the stories we tell ourselves about its impact on our identities With guidance for reframing a story of loss finding equilibrium within it and even experiencing renewed growth and purpose in its wake she demonstrates that though grief is a lifelong process it doesn't have to be a lifelong struggle

*Mind Shift* John Parrington, 2021-04-22 John Parrington argues that social interaction and culture have deeply shaped the exceptional nature of human consciousness The mental capacities of the human mind far outstrip those of other animals Our imaginations and creativity have produced art music and literature built bridges and cathedrals enabled us to probe distant galaxies and to ponder the meaning of our existence When our minds become disordered they can also take us to the depths of despair What makes the human brain unique and able to generate such a rich mental life In this book John Parrington draws on the latest research on the human brain to show how it differs strikingly from those of other animals in its structure and function at a molecular and cellular level And he argues that this shift enlarging the brain giving it greater flexibility and enabling higher functions such as imagination was driven by tool use but especially by the development of one remarkable tool language The complex social interaction brought by language opened up the possibility of shared conceptual worlds enriched with rhythmic sounds and images that could be drawn on cave walls This transformation enabled modern humans to leap rapidly beyond all other species and generated an exceptional human consciousness a sense of self that arises as a product of our brain biology and the social interactions we experience Our minds even those of identical twins are unique because they are the result of this extraordinarily plastic brain exquisitely shaped and tuned by the social and cultural environment in which we grew up and to which we continue to respond through life Linking early work by the Russian psychologist Lev Vygotsky to the findings of modern neuroscience Parrington explores how language culture and society mediate brain function and what this view of the human mind may bring to our understanding and treatment of mental illness

*The Desert Bones* Jamale Ijouiher, 2022-11-22 An essential introduction to the age of dinosaurs in Africa Once Africa was referred to as the Lost World of the dinosaur era so poorly known were its ancient flora and fauna Worse still many priceless fossil specimens from the Sahara Desert were destroyed during the Second World War Fortunately in the twentieth first century more researchers are now working in north Africa than ever before and making fascinating discoveries such as the dinosaur Spinosaurus Based on a decade of study *The Desert Bones* brings the world of African dinosaurs fully into the light Jamale Ijouiher skillfully draws on the latest research and knowledge about paleoecology to paint a compelling and comprehensive portrait of the mid Cretaceous in North Africa

**Leapfrog**

Mukesh Sud, Priyank Narayan, 2022-11-18 Are maestros born or made By making ideas mate can you create new ones How do

you develop a mindset that helps you thrive Can you nudge yourself into being more productive at work Is it possible for you to debunk bullshit from the clutter all around Find the answers to these questions and several more in Leapfrog Leapfrog in the context of thriving at work is a scenario when a new entrant outperforms others How do they achieve this Are high performers born or made Is there a way to nudge yourself into being more successful at work and also in life With its six evidence based insights this book is poised to help you to advance your career at an incredible pace To begin with the first step is to develop grit along with the ability to embrace boredom The second practice leaning on behavioral economics focusses on nudging yourself to make better choices The third practice is about being intellectually humble by accepting limits to what you know The chapter on dancing with disciplines celebrates the magic of ideas colliding to create new ones In a world full of noise and bullshit you will need to curate choices to maintain a focus on what is relevant to you The last practice helps you think like an entrepreneur and develop the ability to ask for what you want Based on their extensive experience of teaching and mentoring students the authors have developed a framework called the Personal Journey Map PJM which will help you imbibe and implement the six practices by capturing your current repertoire scanning the landscape ahead and curating a path to a career in which you can prosper **Pop Goes the Decade** Kevin L. Ferguson,2019-09-03

Popular culture in the 1990s often primarily reflected millennial catastrophic anxieties The world was tightening speeding up and becoming more dangerous and dangerously connected Surely it was only a matter of time before it all came crashing down Pop Goes the Decade The Nineties explains the American 1990s for all readers The book strives to be widely representative of 1990s culture including the more obvious nostalgic versions of the decade as well as focused discussions of representations of minority populations during the decade that are often overlooked This book covers a wide variety of topics to show the decade in its richness music television film literature sports technology and more It includes an introductory timeline and background section followed by a lengthy Exploring Popular Culture section and concludes with a brief series of essays further contextualizing the controversial and influential aspects of the decade This organization allows readers both a wide exposure to the variety of experiences from the decade as well as a more focused approach to aspects of the 1990s that are still resonant today **The Ethics of Invention** Sheila Jasanoff,2016-08-30

We live in a world increasingly governed by technology but to what end Technology rules us as much as laws do It shapes the legal social and ethical environments in which we act Every time we cross a street drive a car or go to the doctor we submit to the silent power of technology Yet much of the time the influence of technology on our lives goes unchallenged by citizens and our elected representatives In The Ethics of Invention renowned scholar Sheila Jasanoff dissects the ways in which we delegate power to technological systems and asks how we might regain control Our embrace of novel technological pathways Jasanoff shows leads to a complex interplay among technology ethics and human rights Inventions like pesticides or GMOs can reduce hunger but can also cause unexpected harm to people and the environment Often as in the case of CFCs creating a hole in the ozone layer it



takes decades before we even realize that any damage has been done Advances in biotechnology from GMOs to gene editing have given us tools to tinker with life itself leading some to worry that human dignity and even human nature are under threat But despite many reasons for caution we continue to march heedlessly into ethically troubled waters As Jasanoff ranges across these and other themes she challenges the common assumption that technology is an apolitical and amoral force Technology she masterfully demonstrates can warp the meaning of democracy and citizenship unless we carefully consider how to direct its power rather than let ourselves be shaped by it The Ethics of Invention makes a bold argument for a future in which societies work together in open democratic dialogue to debate not only the perils but even more the promises of technology

**Resource Salvation** Mark Gorgolewski, 2017-12-26 A valuable source of information insight and fresh ideas about a crucial aspect of the growing sustainable design movement Mounting resource shortages worldwide coupled with skyrocketing extraction costs for new materials have made the prospect of materials reuse and recycling an issue of paramount importance A fundamental goal of the sustainable design movement is to derive utmost use from construction materials and components including energy water materials building components whole structures and even entire infrastructures Written by an expert with many years of experience in both industry and academe this book explores a wide range of sustainable design strategies which designers around the globe are using to create efficient and aesthetically pleasing buildings from waste streams and discarded items Emphasizing performance issues design considerations and process constraints it describes numerous fully realized projects and explores theoretical applications still on the drawing board There is a growing awareness worldwide of the need for cyclical systems of materials reuse Pioneering efforts at closed loop design date as far back as 1960s but only recently have architects and designers begun to focus on the opportunities which discarded materials can provide for creating high performance structures A source of insight and fresh ideas for architects engineers and designers Resource Salvation Reviews the theory and practice of building material and waste reuse and describes best practices in that area worldwide Describes projects that use closed loop thinking to influence and inspire the design of components interiors whole buildings or urban landscapes Illustrates how using discarded materials and focusing on closed loops can lead to new concepts in architecture building science and urban design Demonstrates how designers have developed aesthetically compelling solutions to the demands of rigorous performance standards Resource Salvation is a source of information and inspiration for architects civil engineers green building professionals building materials suppliers landscape designers urban designers and government policymakers It is certain to become required reading in university courses in sustainable architecture as well as materials engineering and environmental engineering curricula with a sustainable design component

[Politically Incorrect Guide to Jihad](#) William Kilpatrick, 2016-09-26 A book to challenge the status quo spark a debate and get people talking about the issues and questions we face as a country

**Doing Global Science** InterAcademy Partnership, 2016-03-01 An essential introduction to the responsible conduct of

science in today's interconnected world This concise introductory guide explains the values that should inform the responsible conduct of scientific research in today's global setting Featuring accessible discussions and ample real world scenarios Doing Global Science covers proper conduct fraud and bias the researcher's responsibilities to society communication with the public and much more The book places special emphasis on the international and highly networked environment in which modern research is done presenting science as an enterprise that is being transformed by globalization interdisciplinary research projects team science and information technologies Accessibly written by an InterAcademy Partnership committee comprised of leading scientists from around the world Doing Global Science is required reading for students practitioners and anyone concerned about the responsible conduct of science today Provides practical guidance and instructions for doing scientific research in today's global setting Covers everything from responsible conduct to communication with the public Features numerous real world scenarios drawn from an array of disciplines and national contexts Focuses on issues commonly encountered in international collaborations Written by a panel of leading experts from around the world An essential guide for practicing scientists and anyone concerned about fostering research integrity

*The How Not to Diet Cookbook* Michael Greger, M.D., FACLM, 2020-12-08 From Michael Greger M D FACLM the author of the New York Times bestseller *How Not to Die* comes a four color fully illustrated cookbook that shares the science of long term weight loss success Dr Michael Greger founded the viral website Nutritionfacts.org with the aim to educate the public about what healthy eating looks like and connect them with a community through food related podcasts videos and blogs Since then Nutritionfacts.org has grown and so has Dr Greger's platform *How Not to Die* and *The How Not to Die Cookbook* were instant hits and now he's back with a new book about mindful dieting how to eat well lose and keep unwanted weight off in a healthy accessible way that's not so much a diet as it is a lifestyle Greger offers readers delicious yet healthy options that allow them to ditch the idea of dieting altogether As outlined in his book *How Not to Diet* Greger believes that identifying the twenty one weight loss accelerators in our bodies and incorporating new cutting edge medical discoveries are integral in putting an end to the all consuming activity of counting calories and getting involved in expensive juice cleanses and Weight Watchers schemes *The How Not to Diet Cookbook* is primed to be a revolutionary new addition to the cookbook industry incredibly effective and designed for everyone looking to make changes to their dietary habits to improve their quality of life weight loss notwithstanding

*The Matrix of Race* Rodney D. Coates, Abby L. Ferber, David L. Brunsma, 2017-09-25 *The Matrix of Race* for race and ethnic relations courses is written by three leading scholars Rodney D Coates David L Brunsma and Abby L Ferber and reflects a very contemporary way of looking at race minorities and intergroup relations Older texts use a categorical approach and feature a series of chapters that examine one minority group at a time African Americans Latino Americans Asian Americans Native Americans etc Newer texts designed within the last 50 years are more likely to be organized topically discuss various racial and ethnic minorities within the context of these

topics and use the most current theories and perspectives in this field The Matrix of Race is built around these core ideas Race is both a social construction and a social institution Race is intersectional it is embedded within other statuses such as gender social class sexuality Concepts of race change over time and as we move from one physical location to another We are all active agents in upholding reproducing or resisting constructions of race

**Cyberspace in Peace and War** Martin Libicki, 2016-10-15 This book is written to be a comprehensive guide to cybersecurity and cyberwar policy and strategy developed for a one or two semester class for students of public policy including political science law business etc Although written from a U S perspective most of its contents are globally relevant It is written essentially in four sections The first chapters 1-5 describes how compromises of computers and networks permit unauthorized parties to extract information from such systems cyber espionage and or to force these systems to misbehave in ways that disrupt their operations or corrupt their workings The section examines notable hacks of systems fundamental challenges to cybersecurity e g the lack of forced entry the measure countermeasure relationship including the role of malware and various broad approaches to cybersecurity The second chapters 6-9 describes what government policies can and as importantly cannot be expected to do to improve a nation's cybersecurity thereby leaving countries less susceptible to cyberattack by others Among its focus areas are approaches to countering nation scale attacks the cost to victims of broad scale cyberespionage and how to balance intelligence and cybersecurity needs The third chapters 10-15 looks at cyberwar in the context of military operations Describing cyberspace as the 5th domain of warfare feeds the notion that lessons learned from other domains e g land sea apply to cyberspace In reality cyberwar a campaign of disrupting corrupting computers networks is quite different it rarely breaks things can only be useful against a sophisticated adversary competes against cyber espionage and has many first strike characteristics The fourth chapters 16-35 examines strategic cyberwar within the context of state on state relations It examines what strategic cyberwar and threats thereof can do against whom and how countries can respond It then considers the possibility and limitations of a deterrence strategy to modulate such threats covering credibility attribution thresholds and punishment as well as whether denial can deter It continues by examining sub rosa attacks where neither the effects nor the attacker are obvious to the public the role of proxy cyberwar the scope for brandishing cyberattack capabilities including in a nuclear context the role of narrative and signals in a conflict in cyberspace questions of strategic stability and norms for conduct in cyberspace particularly in the context of Sino U S relations and the role played by international law The last chapter considers the future of cyberwar

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## New Scientist 2015 01 31 Introduction

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