Ieee Spectrum Magazine

Jeff Hecht

Numbers Don't Lie Vaclav Smil,2021-05-04 Vaclav Smil is my favorite author... Numbers Don't Lie takes everything that makes his writing great and boils it down into an easy-to-read format. I unabashedly recommend this book to anyone who loves learning.--Bill Gates, GatesNotes From the author of How the World Really Works, an essential guide to understanding how numbers reveal the true state of our world--exploring a wide range of topics including energy, the environment, technology, transportation, and food production. Vaclav Smil's mission is to make facts matter. An environmental scientist, policy analyst, and a hugely prolific author, he is Bill Gates' go-to guy for making sense of our world. In Numbers Don't Lie, Smil answers questions such as: What's worse for the environment--your car or your phone? How much do the world's cows weigh (and what does it matter)? And what makes people happy? From data about our societies and populations, through measures of the fuels and foods that energize them, to the impact of transportation and inventions of our modern world--and how all of this affects the planet itself--in Numbers Don't Lie, Vaclav Smil takes us on a fact-finding adventure, using surprising statistics and illuminating graphs to challenge conventional thinking. Packed with fascinating information and memorable examples, Numbers Don't Lie reveals how the US is leading a rising worldwide trend in chicken consumption, that vaccination yields the best return on investment, and why electric cars aren't as great as we think (yet). Urgent and essential, with a mix of science, history, and wit--all in bite-sized chapters on a broad range of topics--Numbers Don't Lie inspires readers to interrogate what they take to be true.

Architects of Intelligence Martin Ford,2018-11-23 Financial Times Best Books of the Year 2018 TechRepublic Top Books Every Techie Should Read Book Description How will AI evolve and what major innovations are on the horizon? What will its impact be on the job market, economy, and

society? What is the path toward human-level machine intelligence? What should we be concerned about as artificial intelligence advances? Architects of Intelligence contains a series of in-depth, oneto-one interviews where New York Times bestselling author, Martin Ford, uncovers the truth behind these questions from some of the brightest minds in the Artificial Intelligence community. Martin has wide-ranging conversations with twenty-three of the world's foremost researchers and entrepreneurs working in AI and robotics: Demis Hassabis (DeepMind), Ray Kurzweil (Google), Geoffrey Hinton (Univ. of Toronto and Google), Rodney Brooks (Rethink Robotics), Yann LeCun (Facebook), Fei-Fei Li (Stanford and Google), Yoshua Bengio (Univ. of Montreal), Andrew Ng (AI Fund), Daphne Koller (Stanford), Stuart Russell (UC Berkeley), Nick Bostrom (Univ. of Oxford), Barbara Grosz (Harvard), David Ferrucci (Elemental Cognition), James Manyika (McKinsey), Judea Pearl (UCLA), Josh Tenenbaum (MIT), Rana el Kaliouby (Affectiva), Daniela Rus (MIT), Jeff Dean (Google), Cynthia Breazeal (MIT), Oren Etzioni (Allen Institute for AI), Gary Marcus (NYU), and Bryan Johnson (Kernel). Martin Ford is a prominent futurist, and author of Financial Times Business Book of the Year, Rise of the Robots. He speaks at conferences and companies around the world on what AI and automation might mean for the future. Meet the minds behind the AI superpowers as they discuss the science, business and ethics of modern artificial intelligence. Read James Manyika's thoughts on AI analytics, Geoffrey Hinton's breakthroughs in AI programming and development, and Rana el Kaliouby's insights into AI marketing. This AI book collects the opinions of the luminaries of the AI business, such as Stuart Russell (coauthor of the leading AI textbook), Rodney Brooks (a leader in AI robotics), Demis Hassabis (chess prodigy and mind behind AlphaGo), and Yoshua Bengio (leader in deep learning) to complete your AI education and give you an AI advantage in 2019 and the future.

<u>Lucky Strikes...Again</u> R. W. Lucky,1993-01-18 Author of the widely acclaimed Reflections column in Spectrum magazine, Lucky provides ten-years-worth of his own humorous and nostalgic refections on typical situations engineers encounter during their careers. Spiced with some new anecdotes and personal experiences, Lucky Strikes...Again takes good-natured gibes at corporate bureaucrats.

IEEE 100 Institute of Electrical and Electronics Engineers, 2000

Rule of the Robots Martin Ford,2021-09-30 In this sequel to his prescient New York Times bestseller Rise of the Robots, Martin Ford presents us with a striking vision of the very near future. He argues that AI is a uniquely powerful technology, a kind of electricity of intelligence that is altering every dimension of human life, often for the better with advanced science being done by machines who can solve problems humans can not. AI has the potential to help us fight climate change or the next pandemic, but it also has a capacity for profound harm. Deep fakes-AI-generated audio or video of events that never happened-are poised to cause havoc throughout society. AI empowers authoritarian regimes like China with unprecedented mechanisms for social control. And AI can be deeply biased, learning bigoted attitudes from the data used to train algorithms and perpetuating them. Hard-hitting and thought-provoking, covering everything from self-driving cars to the history of deep learning to apps for diagnosing skin cancer, Rule of the Robots challenges our fears and preconceptions about artificial intelligence. Ford argues that AI is here to stay and the real question is not how to stop it, but how to control its negative potential and harness its power for good as AI transforms our economy, our politics, and our lives.

1993 Index to IEEE Publications ,1993

<u>Gaming Masculinity</u> Megan Condis,2018-05-01 In 2016, a female videogame programmer and a female journalist were harassed viciously by anonymous male online users in what became known as

GamerGate. Male gamers threatened to rape and kill both women, and the news soon made international headlines, exposing the level of abuse that many women and minorities face when participating in the predominantly male online culture. Gaming Masculinity explains how the term "gamer" has been constructed in the popular imagination by a core group of male online users in an attempt to shore up an embattled form of geeky masculinity. This latest form of toxicity comes at a moment of upheaval in gaming culture, as women, people of color, and LGBTQ individuals demand broader access and representation online. Paying close attention to the online practices of trolling and making memes, author Megan Condis demonstrates that, despite the supposedly disembodied nature of life online, performances of masculinity are still afforded privileged status in gamer culture. Even worse, she finds that these competing discourses are not just relegated to the gaming world but are creating rifts within the culture at large, as witnessed by the direct links between the GamerGate movement and the recent rise of the alt-right during the last presidential election. Condis asks what this moment can teach us about the performative, collaborative, and sometimes combative ways that American culture enacts race, gender, and sexuality. She concludes by encouraging designers and those who work in the tech industry to think about how their work might have, purposefully or not, been developed in ways that are marked by gender.

Detectability of Spread-spectrum Signals Robin A. Dillard,George M. Dillard,1989 A desktop reference for designers of military communication systems using spread-spectrum techniques to achieve a low probability of intercept. Shows how to evaluate the detectability of candidate signal structures mathematically, and to select signal parameters that minimize the probability of dete

1993 Index to IEEE Publications Institute of Electrical and Electronics Engineers,1994 **Constructive Nonlinear Control** R. Sepulchre, M. Jankovic, P.V. Kokotovic, 2012-12-06

Constructive Nonlinear Control presents a broad repertoire of constructive nonlinear designs not available in other works by widening the class of systems and design tools. Several streams of nonlinear control theory are merged and directed towards a constructive solution of the feedback stabilization problem. Analysis, geometric and asymptotic concepts are assembled as design tools for a wide variety of nonlinear phenomena and structures. Geometry serves as a guide for the construction of design procedures whilst analysis provides the robustness which geometry lacks. New recursive designs remove earlier restrictions on feedback passivation. Recursive Lyapunov designs for feedback, feedforward and interlaced structures result in feedback systems with optimality properties and stability margins. The design-oriented approach will make this work a valuable tool for all those who have an interest in control theory.

How to Read Numbers Tom Chivers, David Chivers, 2022-03-31

The Diversity Bonus Scott E. Page,2019-03-26 A book about how businesses and other organizations can improve their performance by tapping the power of differences in how people think. What if workforce diversity is more than simply the right thing to do? What if it can also improve the bottom line? Because it can. The autuor presents overwhelming evidence: teams that include different kinds of thinkers outperform homogenous groups on complex tasks, producing what he calls diversity bonuses. These bonuses include improved problem solving, increased innovation, and more accurate predictions - all of which lead to better results. Drawing on research in economics, psychology, computer science, and many other fields, the book also tells the stories of businesses and organizations that have tapped the power of diversity to solve complex problems. The result changes the way we think about diversity at work-and far beyond

World Set Free H. G. Wells, 2024-02-10 THE WORLD SET FREE was written in 1913 and

published early in 1914, and it is the latest of a series of three fantasias of possibility, stories which all turn on the possible developments in the future of some contemporary force or group of forces. The World Set Free was written under the immediate shadow of the Great War. Every intelligent person in the world felt that disaster was impending and knew no way of averting it, but few of us realised in the earlier half of 1914 how near the crash was to us. The reader will be amused to find that here it is put off until the year 1956. He may naturally want to know the reason for what will seem now a quite extraordinary delay. As a prophet, the author must confess he has always been inclined to be rather a slow prophet. The war aeroplane in the world of reality, for example, beat the forecast in Anticipations by about twenty years or so. I suppose a desire not to shock the sceptical reader's sense of use and wont and perhaps a less creditable disposition to hedge, have something to do with this dating forward of one's main events, but in the particular case of The World Set Free there was, I think, another motive in holding the Great War back, and that was to allow the chemist to get well forward with his discovery of the release of atomic energy. 1956or for that matter 2056may be none too late for that crowning revolution in human potentialities. And apart from this procrastination of over forty years, the guess at the opening phase of the war was fairly lucky; the forecast of an alliance of the Central Empires, the opening campaign through the Netherlands, and the despatch of the British Expeditionary Force were all justified before the book had been published six months. And the opening section of Chapter the Second remains now, after the reality has happened, a fairly adequate diagnosis of the essentials of the matter. One happy hit (in Chapter the Second, Section 2), on which the writer may congratulate himself, is the forecast that under modern conditions it would be quite impossible for any great general to emerge to supremacy and concentrate the enthusiasm of the armies of either side. There could be no Alexanders or Napoleons.

And we soon heard the scientific corps muttering, 'These old fools,' exactly as it is here foretold.These, however, are small details, and the misses in the story far outnumber the hits. It is the main thesis which is still of interest now; the thesis that because of the development of scientific knowledge, separate sovereign states and separate sovereign empires are no longer possible in the world, that to attempt to keep on with the old system is to heap disaster upon disaster for mankind and perhaps to destroy our race altogether. The remaining interest of this book now is the sustained validity of this thesis and the discussion of the possible ending of war on the earth.

Understanding Fiber Optics Jeff Hecht, 2002 For courses in Introduction to Fiber Optics and Introduction to Optical Networking in departments of Electronics Technology and Electronics Engineering Technology. Also suitable for corporate training programs. Ideal for technicians, entrylevel engineers, and other nonspecialists, this best-selling practical, thorough, and accessible introduction to fiber optics reflects the expertise of an author who has followed the field for over 25 years. Using a non-theoretical/non-mathematical approach, it explains the principles of optical fibers, describes components and how they work, explores the tools and techniques used to work with them and the devices used to connect fiber network, and concludes with applications showing how fibers are used in modern communication systems. It covers both existing systems and developing technology, so students can understand present systems and new developments.

The Plane Wave Spectrum Representation of Electromagnetic Fields P. C. Clemmow,1996 Electrical Engineering/Electromagnetics The Plane Wave Spectrum Representation of Electromagnetic Fields A classic reissue in the IEEE/OUP Series on Electromagnetic Wave Theory Donald G. Dudley, Series EditorI am pleased to see that the IEEE Press and OUP have secured the rights to republish this excellent monograph ... a long-cherished exposition on the angular spectrum concept.--James R. WaitThe purpose of this book is to explain how general electromagnetic fields can be represented by the superposition of plane waves traveling in diverse directions, and to illustrate the way in which this plane wave spectrum representation can be put to good use in treating various characteristic problems belonging to the classical theories of radiation, diffraction and propagation. The book offers a largely unified theory of a range of problems, solutions to all of which are obtained in forms at least patently capable of yielding numerical results by straightforward means. The reader is assumed to be competent at integration in the complex plane, but otherwise the discussion is virtually self-contained. The aim is to furnish the student of electromagnetic theory with a useful technical tool and a comparatively compact account of some interesting aspects of his discipline. The contents are presented in two parts. The first, under the heading of Theory, covers Preliminaries, Plane wave representations; and Supplementary theory. The second, with the heading Application, deals with Diffraction by a plane screen; Propagation over a uniform plane surface; Propagation over a two-part plane surface; The field of a moving point charge; and Sources of anisotropic media. Also in the series ... Field Computation by Moment Method An IEEE/OUP classic reissue R.F. Harrington, Syracuse University 1995, Hardcover, 240 pp. Waves and Fields in Inhomogeneous Media An IEEE/OUP classic reissue Weng Cho Chew, University of Illinois at Urbana-Champaign 1995, Hardcover, 632 pp. Methods in Electromagnetic Wave Propagation Second Edition D.S. Jones, University of Dundee 1994, Hardcover, 686 pp. About the seriesFormerly the IEEE Press Series on Electromagnetic Waves, this new joint series between IEEE Press and Oxford University Press offers even better coverage of the field with new titles as well as reprintings and revisions of recognized classics that maintain long-term archival significance in electromagnetic waves and applications. Designed specifically for graduate students, practicing engineers, and researchers, this series

provides affordable volumes that explore electromagnetic waves and applications beyond the undergraduate level

A New Kind of Science Stephen Wolfram,2018-11-30 NOW IN PAPERBACK€Starting from a collection of simple computer experiments€illustrated in the book by striking computer graphics€Stephen Wolfram shows how their unexpected results force a whole new way of looking at the operation of our universe.

Spectrum Sharing Constantinos B. Papadias, Tharmalingam Ratnarajah, Dirk T. M. Slock, 2020-06-02 Combines the latest trends in spectrum sharing, both from a research and a standards/regulation/experimental standpoint Written by noted professionals from academia, industry, and research labs, this unique book provides a comprehensive treatment of the principles and architectures for spectrum sharing in order to help with the existing and future spectrum crunch issues. It presents readers with the most current standardization trends, including CEPT / CEE, eLSA, CBRS, MulteFire, LTE-Unlicensed (LTE-U), LTE WLAN integration with Internet Protocol security tunnel (LWIP), and LTE/Wi-Fi aggregation (LWA), and offers substantial trials and experimental results, as well as system-level performance evaluation results. The book also includes a chapter focusing on spectrum policy reinforcement and another on the economics of spectrum sharing. Beginning with the historic form of cognitive radio, Spectrum Sharing: The Next Frontier in Wireless Networks continues with current standardized forms of spectrum sharing, and reviews all of the technical ingredients that may arise in spectrum sharing approaches. It also looks at policy and implementation aspects and ponders the future of the field. White spaces and data base-assisted spectrum sharing are discussed, as well as the licensed shared access approach and cooperative communication techniques. The book also covers reciprocity-based beam forming techniques for

spectrum sharing in MIMO networks; resource allocation for shared spectrum networks; large scale wireless spectrum monitoring; and much more. Contains all the latest standardization trends, such as CEPT / ECC, eLSA, CBRS, MulteFire, LTE-Unlicensed (LTE-U), LTE WLAN integration with Internet Protocol security tunnel (LWIP) and LTE/Wi-Fi aggregation (LWA) Presents a number of emerging technologies for future spectrum sharing (collaborative sensing, cooperative communication, reciprocity-based beamforming, etc.), as well as novel spectrum sharing paradigms (e.g. in full duplex and radar systems) Includes substantial trials and experimental results, as well as system-level performance evaluation results Contains a dedicated chapter on spectrum policy reinforcement and one on the economics of spectrum sharing Edited by experts in the field, and featuring contributions by respected professionals in the field world wide Spectrum Sharing: The Next Frontier in Wireless Networks is highly recommended for graduate students and researchers working in the areas of wireless communications and signal processing engineering. It would also benefit radio communications engineers and practitioners.

The Ups and Downs of Gravity David A. Adler,2021-01-12 Explore the ups and downs of gravity in this introduction to physical science by a trusted nonfiction team. What happens to a ball when it rolls off a table? It falls to the floor. Why doesn't the ball keep rolling straight ahead or fly up off the table? The answer is gravity. From density to inertia to free fall, David A. Adler skillfully explains how this invisible, but all too real force operates and what it means for our daily lives. Notable science experiments by Sir Isaac Newton and astronaut David R. Scott are covered. Also included are activities for kids to test at home and in the classroom. Anna Raff's bright and humorous artwork helps breakdown the concepts in a kid-friendly way. A glossary concludes the work.

Machine Learning for Future Wireless Communications Fa-Long Luo, 2020-02-10 A

comprehensive review to the theory, application and research of machine learning for future wireless communications In one single volume, Machine Learning for Future Wireless Communications provides a comprehensive and highly accessible treatment to the theory, applications and current research developments to the technology aspects related to machine learning for wireless communications and networks. The technology development of machine learning for wireless communications has grown explosively and is one of the biggest trends in related academic, research and industry communities. Deep neural networks-based machine learning technology is a promising tool to attack the big challenge in wireless communications and networks imposed by the increasing demands in terms of capacity, coverage, latency, efficiency flexibility, compatibility, quality of experience and silicon convergence. The author – a noted expert on the topic - covers a wide range of topics including system architecture and optimization, physicallayer and cross-layer processing, air interface and protocol design, beamforming and antenna configuration, network coding and slicing, cell acquisition and handover, scheduling and rate adaption, radio access control, smart proactive caching and adaptive resource allocations. Uniquely organized into three categories: Spectrum Intelligence, Transmission Intelligence and Network Intelligence, this important resource: Offers a comprehensive review of the theory, applications and current developments of machine learning for wireless communications and networks Covers a range of topics from architecture and optimization to adaptive resource allocations Reviews state-ofthe-art machine learning based solutions for network coverage Includes an overview of the applications of machine learning algorithms in future wireless networks Explores flexible backhaul and front-haul, cross-layer optimization and coding, full-duplex radio, digital front-end (DFE) and radio-frequency (RF) processing Written for professional engineers, researchers, scientists,

manufacturers, network operators, software developers and graduate students, Machine Learning for Future Wireless Communications presents in 21 chapters a comprehensive review of the topic authored by an expert in the field.

5G Spectrum and Standards Geoff Varrall,2016-05-31 This new resource provides key insight into future 5G radio systems and the technical and economic impact on industries, communities and end-users. The book offers a comprehensive understanding of the options available for teams tasked with bringing 5G products and services to market or developing supporting standards and regulatory frameworks. Readers find contemporary examples of millimeter band radio hardware including 60 GHz and V band and E Band point to point radio. This book demonstrates the profound progress with 4G radio signal processing and RF hardware to reveal its potential applicability to 5G radio systems. It shows how 5G systems are capable of delivering data rates that are ten to one hundred times faster than 4G systems. Developments in spatial processing and beam forming in local area radio networks are presented and the challenge of scaling these systems to wide area radio is explored. This book reviews military and space radio and automotive radar innovation with direct relevance to 5G radio design.

Decoding Ieee Spectrum Magazine: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the

pages of "**Ieee Spectrum Magazine**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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Ieee Spectrum Magazine Introduction

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