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## **KEY=EVOLUTION - CESAR HARRY**

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### **THE EDGE OF EVOLUTION**

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### **THE SEARCH FOR THE LIMITS OF DARWINISM**

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*Simon and Schuster* The author of Darwin's Black Box draws on new findings in genetics to pose an argument for intelligent design that refutes Darwinian beliefs about evolution while offering alternative analyses of such factors as disease, random mutations, and the human struggle for survival. Reprint. 40,000 first printing.

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### **ADAPTATION AND NATURAL SELECTION**

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### **A CRITIQUE OF SOME CURRENT EVOLUTIONARY THOUGHT**

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*Princeton University Press* Biological evolution is a fact—but the many conflicting theories of evolution remain controversial even today. When *Adaptation and Natural Selection* was first published in 1966, it struck a powerful blow against those who argued for the concept of group selection—the idea that evolution acts to select entire species rather than individuals. Williams's famous work in favor of simple Darwinism over group selection has become a classic of science literature, valued for its thorough and convincing

argument and its relevance to many fields outside of biology. Now with a new foreword by Richard Dawkins, *Adaptation and Natural Selection* is an essential text for understanding the nature of scientific debate.

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### **CLIMBING MOUNT IMPROBABLE**

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*W. W. Norton & Company* A brilliant book celebrating improbability as the engine that drives life, by the acclaimed author of *The Selfish Gene* and *The Blind Watchmaker*. The human eye is so complex and works so precisely that surely, one might believe, its current shape and function must be the product of design. How could such an intricate object have come about by chance? Tackling this subject—in writing that the *New York Times* called "a masterpiece"—Richard Dawkins builds a carefully reasoned and lovingly illustrated argument for evolutionary adaptation as the mechanism for life on earth. The metaphor of Mount Improbable represents the combination of perfection and improbability that is epitomized in the seemingly "designed" complexity of living things. Dawkins skillfully guides the reader on a breathtaking journey through the mountain's passes and up its many peaks to demonstrate that following the improbable path to perfection takes time. Evocative illustrations accompany Dawkins's eloquent descriptions of extraordinary adaptations such as the teeming populations of figs, the intricate silken world of spiders, and the evolution of wings on the bodies of flightless animals. And through it all runs the thread of DNA, the molecule of life, responsible for its own destiny on an unending pilgrimage through time. *Climbing Mount Improbable* is a book of great impact and skill, written by the most prominent Darwinian of our age.

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### **ESSENTIALS OF METAHEURISTICS (SECOND EDITION)**

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Interested in the Genetic Algorithm? Simulated Annealing? Ant Colony Optimization? *Essentials of Metaheuristics* covers these and other metaheuristics algorithms, and is intended for undergraduate students, programmers, and non-experts. The book covers a wide range of algorithms, representations, selection and modification operators, and related topics, and includes 71 figures and 135 algorithms great and small. Algorithms include: Gradient Ascent techniques, Hill-Climbing variants, Simulated Annealing, Tabu Search variants, Iterated Local Search, Evolution Strategies, the Genetic Algorithm, the Steady-State Genetic Algorithm, Differential Evolution, Particle Swarm Optimization, Genetic Programming variants, One- and Two-Population Competitive Coevolution, N-Population Cooperative Coevolution, Implicit Fitness Sharing, Deterministic Crowding, NSGA-II, SPEA2, GRASP, Ant Colony Optimization variants, Guided Local Search, LEM, PBIL, UMDA, cGA, BOA, SAMUEL, ZCS, XCS, and XCSF.

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## **DEVELOPING BIOINFORMATICS COMPUTER SKILLS**

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"O'Reilly Media, Inc." Offers a structured approach to biological data and the computer tools needed to analyze it, covering UNIX, databases, computation, Perl, data mining, data visualization, and tailoring software to suit specific research needs.

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## **THE RE-EMERGENCE OF EMERGENCE**

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## **THE EMERGENTIST HYPOTHESIS FROM SCIENCE TO RELIGION**

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*Oxford University Press* Much of the modern period was dominated by a 'reductionist' theory of science. On this view, to explain any event in the world is to reduce it down to fundamental particles, laws, and forces. In recent years reductionism has been dramatically challenged by a radically new paradigm called 'emergence'. According to this new theory, natural history reveals the continuous emergence of novel phenomena: new structures and new organisms with new causal powers. Consciousness is yet onemore emergent level in the natural hierarchy. Many theologians and religious scholars believe that this new paradigm may offer new insights into the nature of God and God's relation to the world. This volume introduces readers to emergence theory, outlines the major arguments in its defence, and summarizes the most powerful objections against it. Written by experts but suitable as an introductory text, these essays provide the best available presentation of this exciting new field and its potentially momentous implications.

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## **WHAT TECHNOLOGY WANTS**

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*Penguin* From the author of the New York Times bestseller *The Inevitable*— a sweeping vision of technology as a living force that can expand our individual potential In this provocative book, one of today's most respected thinkers turns the conversation about technology on its head by viewing technology as a natural system, an extension of biological evolution. By mapping the behavior of life, we paradoxically get a glimpse at where technology is headed-or "what it wants." Kevin Kelly offers a dozen trajectories in the coming decades for this near-living system. And as we align ourselves with technology's agenda, we can capture its colossal potential. This visionary and optimistic book explores how technology gives our lives greater meaning and is a must-read for anyone curious about the future.

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## **POLICY IMPLICATIONS OF GREENHOUSE WARMING**

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## MITIGATION, ADAPTATION, AND THE SCIENCE BASE

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*National Academies Press* Global warming continues to gain importance on the international agenda and calls for action are heightening. Yet, there is still controversy over what must be done and what is needed to proceed. Policy Implications of Greenhouse Warming describes the information necessary to make decisions about global warming resulting from atmospheric releases of radiatively active trace gases. The conclusions and recommendations include some unexpected results. The distinguished authoring committee provides specific advice for U.S. policy and addresses the need for an international response to potential greenhouse warming. It offers a realistic view of gaps in the scientific understanding of greenhouse warming and how much effort and expense might be required to produce definitive answers. The book presents methods for assessing options to reduce emissions of greenhouse gases into the atmosphere, offset emissions, and assist humans and unmanaged systems of plants and animals to adjust to the consequences of global warming.

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## THE BOTANY OF DESIRE

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### A PLANT'S-EYE VIEW OF THE WORLD

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*Random House Trade Paperbacks* “Pollan shines a light on our own nature as well as on our implication in the natural world.” —The New York Times “A wry, informed pastoral.” —The New Yorker The book that helped make Michael Pollan, the New York Times bestselling author of *How to Change Your Mind*, *Cooked* and *The Omnivore’s Dilemma*, one of the most trusted food experts in America Every schoolchild learns about the mutually beneficial dance of honeybees and flowers: The bee collects nectar and pollen to make honey and, in the process, spreads the flowers’ genes far and wide. In *The Botany of Desire*, Michael Pollan ingeniously demonstrates how people and domesticated plants have formed a similarly reciprocal relationship. He masterfully links four fundamental human desires—sweetness, beauty, intoxication, and control—with the plants that satisfy them: the apple, the tulip, marijuana, and the potato. In telling the stories of four familiar species, Pollan illustrates how the plants have evolved to satisfy humankind’s most basic yearnings. And just as we’ve benefited from these plants, we have also done well by them. So who is really domesticating whom?

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## BOYD PSYCHIATRIC NURSING

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## CONTEMPORARY PRACTICE

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## EVOLUTION EDUCATION RE-CONSIDERED

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## UNDERSTANDING WHAT WORKS

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*Springer* This collection presents research-based interventions using existing knowledge to produce new pedagogies to teach evolution to learners more successfully, whether in schools or elsewhere. 'Success' here is measured as cognitive gains, as acceptance of evolution or an increased desire to continue to learn about it. Aside from introductory and concluding chapters by the editors, each chapter consists of a research-based intervention intended to enable evolution to be taught successfully; all these interventions have been researched and evaluated by the chapters' authors and the findings are presented along with discussions of the implications. The result is an important compendium of studies from around the world conducted both inside and outside of school. The volume is unique and provides an essential reference point and platform for future work for the foreseeable future.

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## TO LIFE!

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## ECO ART IN PURSUIT OF A SUSTAINABLE PLANET

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*Univ of California Press* This title documents the burgeoning eco art movement from A to Z, presenting a panorama of artistic responses to environmental concerns, from Ant Farms anti-consumer antics in the 1970s to Marina Zurkows 2007 animation that anticipates the havoc wreaked upon the planet by global warming.

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## CONVERGING TECHNOLOGIES FOR IMPROVING HUMAN PERFORMANCE

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## NANOTECHNOLOGY, BIOTECHNOLOGY, INFORMATION TECHNOLOGY AND COGNITIVE SCIENCE

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*Springer Science & Business Media* M. C. Roco and W.S. Bainbridge In the early decades of the 21st century, concentrated efforts can unify science based on the unity of nature, thereby advancing the combination of nanotechnology, biotechnology, information technology, and new technologies based in cognitive science. With proper attention to ethical issues and societal needs, converging in human abilities, societal technologies could achieve a tremendous improvement outcomes, the nation's productivity, and the quality of life. This is a broad, cross cutting, emerging and timely opportunity of interest to individuals, society and humanity in the long term. The phrase "convergent technologies" refers to the synergistic combination of four major "NBIC" (nano-bio-info-cogno) provinces of

science and technology, each of which is currently progressing at a rapid rate: (a) nanoscience and nanotechnology; (b) biotechnology and biomedicine, including genetic engineering; (c) information technology, including advanced computing and communications; (d) cognitive science, including cognitive neuroscience. Timely and Broad Opportunity. Convergence of diverse technologies is based on material unity at the nanoscale and on technology integration from that scale.

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## **COMPUTATIONAL COMPLEXITY**

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### **A MODERN APPROACH**

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*Cambridge University Press* New and classical results in computational complexity, including interactive proofs, PCP, derandomization, and quantum computation. Ideal for graduate students.

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## **PHILOSOPHICAL FOUNDATIONS OF CONTRACT LAW**

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*OUP Oxford* In recent years there has been a revival of interest in the philosophical study of contract law. In 1981 Charles Fried claimed that contract law is based on the philosophy of promise and this has generated what is today known as 'the contract and promise debate'. Cutting to the heart of contemporary discussions, this volume brings together leading philosophers, legal theorists, and contract lawyers to debate the philosophical foundations of this area of law. Divided into two parts, the first explores general themes in the contract theory literature, including the philosophy of promising, the nature of contractual obligation, economic accounts of contract law, and the relationship between contract law and moral values such as personal autonomy and distributive justice. The second part uses these philosophical ideas to make progress in doctrinal debates, relating for example to contract interpretation, unfair terms, good faith, vitiating factors, and remedies. Together, the essays provide a picture of the current state of research in this revitalized area of law, and pave the way for future study and debate.

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## **DYSGENICS**

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### **GENETIC DETERIORATION IN MODERN POPULATIONS**

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*Greenwood* A review of the history of the eugenics movement and an argument for the rehabilitation of the concept.

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## **LEARNING AND BEHAVIOR**

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*Cengage Learning* LEARNING AND BEHAVIOR, Seventh Edition, is stimulating and filled with high-interest queries and examples. Based on the theme that learning is a biological mechanism that aids survival, this book embraces a scientific approach to behavior but is written in clear, engaging, and easy-to-understand language. Available with InfoTrac Student Collections <http://gocengage.com/infotrac>. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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## **THE SYSTEM OF OBJECTS**

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*Verso Books* The System of Objects is a tour de force—a theoretical letter-in-a-bottle tossed into the ocean in 1968, which brilliantly communicates to us all the live ideas of the day. Pressing Freudian and Saussurean categories into the service of a basically Marxist perspective, The System of Objects offers a cultural critique of the commodity in consumer society. Baudrillard classifies the everyday objects of the “new technical order” as functional, nonfunctional and metafunctional. He contrasts “modern” and “traditional” functional objects, subjecting home furnishing and interior design to a celebrated semiological analysis. His treatment of nonfunctional or “marginal” objects focuses on antiques and the psychology of collecting, while the metafunctional category extends to the useless, the aberrant and even the “schizofunctional.” Finally, Baudrillard deals at length with the implications of credit and advertising for the commodification of everyday life. The System of Objects is a tour de force of the materialist semiotics of the early Baudrillard, who emerges in retrospect as something of a lightning rod for all the live ideas of the day: Bataille’s political economy of “expenditure” and Mauss’s theory of the gift; Reisman’s lonely crowd and the “technological society” of Jacques Ellul; the structuralism of Roland Barthes in The System of Fashion; Henri Lefebvre’s work on the social construction of space; and last, but not least, Guy Debord’s situationist critique of the spectacle.

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## **HOW COMPUTERS WORK**

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## **THE EVOLUTION OF TECHNOLOGY**

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*Pearson Education* Explains the structure and functions of microprocessors, hard drives, disk drives, tape drives, keyboards, CD-ROM, multimedia sound and video, serial ports, mice, modems, scanners, LANs, and printers.

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## **THE VARIATION OF ANIMALS & PLANTS UNDER DOMESTICATION**

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## **PARALYSIS RESOURCE GUIDE**

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The Paralysis Resource Guide, produced by the Christopher & Dana Reeve Foundation, is a reference and lifestyle tool for people affected by paralysis. The book includes details on medical and clinical subjects related to all causes of paralysis, as well as health maintenance information. The fully-illustrated book provides a detailed overview of biomedical research, assistive technology, sports and recreation activities, legal and civil rights, social security and benefits, and numerous lifestyle options.

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## **THE EVOLUTION OF OUR TRIBE**

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### **HOMININI**

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Open SUNY Textbooks Where did we come from? What were our ancestors like? Why do we differ from other animals? How do scientists trace and construct our evolutionary history? The Evolution of Our Tribe: Hominini provides answers to these questions and more. The book explores the field of paleoanthropology past and present. Beginning over 65 million years ago, Welker traces the evolution of our species, the environments and selective forces that shaped our ancestors, their physical and cultural adaptations, and the people and places involved with their discovery and study. It is designed as a textbook for a course on Human Evolution but can also serve as an introductory text for relevant sections of courses in Biological or General Anthropology or general interest. It is both a comprehensive technical reference for relevant terms, theories, methods, and species and an overview of the people, places, and discoveries that have imbued paleoanthropology with such fascination, romance, and mystery.

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## **THE DOUBLE HELIX**

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### **A PERSONAL ACCOUNT OF THE DISCOVERY OF THE STRUCTURE OF DNA**

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Simon and Schuster The classic personal account of Watson and Crick's groundbreaking discovery of the structure of DNA, now with an introduction by Sylvia Nasar, author of A Beautiful Mind. By identifying the structure of DNA, the molecule of life, Francis Crick and James Watson revolutionized biochemistry and won themselves a Nobel Prize. At the time, Watson was only twenty-four, a young scientist hungry to make his mark. His uncompromisingly honest account of the heady days of their thrilling sprint against other world-class researchers to solve one of science's greatest mysteries gives a dazzlingly clear picture of a world of brilliant scientists with great gifts, very human ambitions, and bitter rivalries. With humility unspoiled by false modesty, Watson relates his and Crick's desperate efforts to beat Linus Pauling to the Holy Grail of life sciences, the identification of the basic building block of life. Never has

a scientist been so truthful in capturing in words the flavor of his work.

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## **IF A LION COULD TALK**

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## **WALKABLE CITY**

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## **HOW DOWNTOWN CAN SAVE AMERICA, ONE STEP AT A TIME**

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*Farrar, Straus and Giroux* Jeff Speck has dedicated his career to determining what makes cities thrive. And he has boiled it down to one key factor: walkability. The very idea of a modern metropolis evokes visions of bustling sidewalks, vital mass transit, and a vibrant, pedestrian-friendly urban core. But in the typical American city, the car is still king, and downtown is a place that's easy to drive to but often not worth arriving at. Making walkability happen is relatively easy and cheap; seeing exactly what needs to be done is the trick. In this essential new book, Speck reveals the invisible workings of the city, how simple decisions have cascading effects, and how we can all make the right choices for our communities. Bursting with sharp observations and real-world examples, giving key insight into what urban planners actually do and how places can and do change, *Walkable City* lays out a practical, necessary, and eminently achievable vision of how to make our normal American cities great again.

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## **INTRODUCTION TO EVOLUTIONARY ALGORITHMS**

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*Springer Science & Business Media* Evolutionary algorithms are becoming increasingly attractive across various disciplines, such as operations research, computer science, industrial engineering, electrical engineering, social science and economics. *Introduction to Evolutionary Algorithms* presents an insightful, comprehensive, and up-to-date treatment of evolutionary algorithms. It covers such hot topics as: • genetic algorithms, • differential evolution, • swarm intelligence, and • artificial immune systems. The reader is introduced to a range of applications, as *Introduction to Evolutionary Algorithms* demonstrates how to model real world problems, how to encode and decode individuals, and how to design effective search operators according to the chromosome structures with examples of constraint optimization, multiobjective optimization, combinatorial optimization, and supervised/unsupervised learning. This emphasis on practical applications will benefit all students, whether they choose to continue their academic career or to enter a particular industry. *Introduction to Evolutionary Algorithms* is intended as a textbook or self-study material for both advanced undergraduates and graduate students. Additional features such as recommended further reading and ideas for research projects combine to form an accessible and interesting pedagogical approach to this widely used discipline.

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## TECHNOLOGICAL SLAVERY (LARGE PRINT 16PT)

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*ReadHowYouWant.com* Theodore Kaczynski saw violent collapse as the only way to bring down the techno-industrial system, and in more than a decade of mail bomb terror he killed three people and injured 23 others. One does not need to support the actions that landed Kaczynski in supermax prison to see the value of his essays disabusing the notion of heroic technology while revealing the manner in which it is destroying the planet. For the first time, readers will have an uncensored personal account of his anti-technology philosophy, including a corrected version of the notorious "Unabomber Manifesto," Kaczynski's critique of anarcho-primitivism, and essays regarding "the Coming Revolution."

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## THE PECULIARS

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*ABRAMS* A young girl sets off on a journey of self-discovery in this "richly atmospheric" tale blending steampunk, adventure, and gothic romance (*Kirkus Reviews*). With her noticeably large hands and feet, Lena Mattacascar is undoubtedly different. Secretly, she's wondered if she might actually be Peculiar, and if her father—who left when she was only five years old—may have been Peculiar too. On her eighteenth birthday, Lena receives a letter that inspires her to leave the safety of the City and search for her father in the northern wilderness of Scree—a place inhabited by people whose own unusual characteristics make them unacceptable to modern society. Her journey leads to romance, danger, and a darkness she's never imagined. For in the wilds of Scree, she must confront her deepest fears . . . "Readers graduating from the stories of C.S. Lewis and Edward Eager will be right at home—and cat lovers will adore Jimson's employer's pet, Mrs. Mumbles. McQuerry's extensive world-building leaves open the possibility of future installments." —Publishers Weekly

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## PSYCHIATRIC NURSING

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### CONTEMPORARY PRACTICE

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*Lippincott Williams & Wilkins* The AJN Book of the Year award-winning textbook, *Psychiatric Nursing: Contemporary Practice*, is now in its thoroughly revised, updated Fourth Edition. Based on the biopsychosocial model of psychiatric nursing, this text provides thorough coverage of mental health promotion, assessment, and interventions in adults, families, children, adolescents, and older adults. Features include psychoeducation checklists, therapeutic dialogues, NCLEX® notes, vignettes of famous people with mental disorders, and illustrations showing the interrelationship of the biologic, psychologic, and social domains of mental health and illness. This edition reintroduces the important chapter on sleep disorders and includes a new chapter on forensic psychiatry. A bound-in CD-ROM

and companion Website offer numerous student and instructor resources, including Clinical Simulations and questions about movies involving mental disorders.

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## **THE WORLD IS FLAT [FURTHER UPDATED AND EXPANDED; RELEASE 3.0]**

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### **A BRIEF HISTORY OF THE TWENTY-FIRST CENTURY**

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*Macmillan* This new edition of Friedman's landmark book explains the flattening of the world better than ever- and takes a new measure of the effects of this change on each of us.

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### **INTRODUCTION TO ENVIRONMENTAL SCIENCES**

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*The Energy and Resources Institute (TERI)* Environmental sciences is a vast and multidisciplinary science that involves the study of natural resources of land, water, and air. Introduction to Environmental Sciences comprehensively covers numerous aspects of this vast subject. While some chapters focus the causes of environmental problems, others discuss methods and ways of mitigating these causes.

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### **INTUITION PUMPS AND OTHER TOOLS FOR THINKING**

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*W. W. Norton & Company* The philosophy professor behind *Breaking the Spell* and *Consciousness Explained* offers exercises and tools to stretch the mind, offering new ways to consider, discuss and argue positions on dangerous subject matter including evolution, the meaning of life and free will.

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### **THE DEMOCRATIZATION OF ARTIFICIAL INTELLIGENCE**

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### **NET POLITICS IN THE ERA OF LEARNING ALGORITHMS**

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*transcript Verlag* After a long time of neglect, Artificial Intelligence is once again at the center of most of our political, economic, and socio-cultural debates. Recent advances in the field of Artificial Neural Networks have led to a renaissance of dystopian and utopian speculations on an AI-rendered future. Algorithmic technologies are deployed for identifying potential terrorists through vast surveillance networks, for producing sentencing guidelines and recidivism risk profiles in criminal justice systems, for demographic and psychographic targeting of bodies for advertising or propaganda, and more generally for automating the analysis of language,

text, and images. Against this background, the aim of this book is to discuss the heterogenous conditions, implications, and effects of modern AI and Internet technologies in terms of their political dimension: What does it mean to critically investigate efforts of net politics in the age of machine learning algorithms?

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## CAT SENSE

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### HOW THE NEW FELINE SCIENCE CAN MAKE YOU A BETTER FRIEND TO YOUR PET

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*Basic Books (AZ)* Cats have been popular household pets for thousands of years, and their numbers only continue to rise. Today there are three cats for every dog on the planet, and yet cats remain more mysterious, even to their most adoring owners. Unlike dogs, cats evolved as solitary hunters, and, while many have learned to live alongside humans and even feel affection for us, they still don't quite "get us" the way dogs do, and perhaps they never will. But cats have rich emotional lives that we need to respect and understand if they are to thrive in our company. In *Cat Sense*, renowned anthrozoologist John Bradshaw takes us further into the mind of the domestic cat than ever before, using cutting-edge scientific research to dispel the myths and explain the true nature of our feline friends. Tracing the cat's evolution from lone predator to domesticated companion, Bradshaw shows that although cats and humans have been living together for at least eight thousand years, cats remain independent, predatory, and wary of contact with their own kind, qualities that often clash with our modern lifestyles. Cats still have three out of four paws firmly planted in the wild, and within only a few generations can easily revert back to the independent way of life that was the exclusive preserve of their predecessors some 10,000 years ago. Cats are astonishingly flexible, and given the right environment they can adapt to a life of domesticity with their owners—but to continue do so, they will increasingly need our help. If we're to live in harmony with our cats, Bradshaw explains, we first need to understand their inherited quirks: understanding their body language, keeping their environments—however small—sufficiently interesting, and becoming more proactive in managing both their natural hunting instincts and their relationships with other cats. A must-read for any cat lover, *Cat Sense* offers humane, penetrating insights about the domestic cat that challenge our most basic assumptions and promise to dramatically improve our pets' lives—and ours.

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### HOW CREATIVITY HAPPENS IN THE BRAIN

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*Springer* *How Creativity Happens In The Brain* is about the brain mechanisms of creativity, how a grapefruit-sized heap of meat crackling with electricity manages to be so outrageously creative. It has a sharp focus: to stick exclusively to sound, mechanistic explanations and convey what we can, and cannot, say about how brains give rise to creative ideas.

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## THE CONSUMER SOCIETY

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## MYTHS AND STRUCTURES

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*SAGE* Jean Baudrillard's classic text was one of the first to focus on the process and meaning of consumption in contemporary culture. Originally published in 1970, the book makes a vital contribution to current debates on consumption. The book includes Baudrillard's most organized discussion of mass media culture, the meaning of leisure, and anomie in affluent society. A chapter on the body demonstrates Baudrillard's extraordinary prescience for flagging vital subjects in contemporary culture long before others. This English translation begins with a new introductory essay.

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## ENVIRONMENTAL IMPACT OF GENETICALLY MODIFIED CROPS

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*CABI* The genetic modification of crops continues to be the subject of intense debate, and opinions are often strongly polarised. *Environmental Impact of Genetically Modified Crops* addresses the major concerns of scientists, policy makers, environmental lobby groups and the general public regarding this controversial issue, from an editorially neutral standpoint. While the main focus is on environmental impact, food safety issues, for both humans and animals are also considered. The book concludes with a discussion on the future of agricultural biotechnology in the context of sustainability, natural resource management and future global population and food supply.

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## ARTIFICIAL LIFE

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## THE QUEST FOR A NEW CREATION

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This book looks at artificial life science - A-Life, an important new area of scientific research involving the disciplines of microbiology, evolutionary theory, physics, chemistry and computer science. In the 1940s a mathematician named John von Neumann, a man with a claim to being the father of the modern computer, invented a hypothetical mathematical entity called a cellular automaton. His aim was to construct a machine that could reproduce itself. In the years since, with the development of hugely more sophisticated and complex computers, von Neumann's insights have gradually led to a point where scientists have created, within the wiring of these machines, something that so closely simulates life that it may, arguably, be called life. This machine reproduces itself, mutates, evolves through generations and dies.

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**AI**

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**ITS NATURE AND FUTURE**

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*Oxford University Press* The applications of Artificial Intelligence lie all around us; in our homes, schools and offices, in our cinemas, in art galleries and - not least - on the Internet. The results of Artificial Intelligence have been invaluable to biologists, psychologists, and linguists in helping to understand the processes of memory, learning, and language from a fresh angle. As a concept, Artificial Intelligence has fuelled and sharpened the philosophical debates concerning the nature of the mind, intelligence, and the uniqueness of human beings. Margaret A. Boden reviews the philosophical and technological challenges raised by Artificial Intelligence, considering whether programs could ever be really intelligent, creative or even conscious, and shows how the pursuit of Artificial Intelligence has helped us to appreciate how human and animal minds are possible.

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**THE GALAPAGOS ISLANDS**

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*Penguin Group USA*