

Pegasus The Early Seminal Computer

Technology is our conduit of power. In our modern world, technology is the gatekeeper deciding who shall have and who shall have not. Either technology works for you or you work for technology. It shapes the human race just as much as we shape it. But where is this symbiosis going? Who provides the directions, the intentions, the goals of this human-machine partnership? Such decisions do not derive from the creators of technology who are enmeshed in their individual innovations. They neither come from our social leaders who possess only sufficient technical understanding to react to innovations, not to anticipate or direct their progress. Neither is there evidence of some omnipotent 'invisible hand,' the simple fact is that no one is directing this enterprise. In *Mind, Machine and Morality*, Peter Hancock asks questions about this insensate progress and has the temerity to suggest some cognate answers. He argues for the unbreakable symbiosis of purpose and process, and examines the dangerous possibilities that emerge when science and purpose meet. Historically, this work is a modern-day child of Bacon's hope for the 'Great Instauration.' However, unlike its forebear, the focus here is on human-machine systems. The emphasis centers on the conception that the active, extensive face of modern philosophy is technology. Whatever we are to become is bound up not only in our biology but critically in our technology also. And to achieve rational progress we need to articulate manifest purpose. This book is one step along the purposive road. Drawing together his many seminal writings on human-machine interaction and adapting these works specifically for this collection, Peter Hancock provides real food for thought, delighting readers with his unique philosophical perspective and outstanding insights. This is theoretical work of the highest order and will open minds accordingly.

Pegasus was conceived by two of the most inspired computer pioneers, each supported by tiny groups of exceptional colleagues. While in itself it was an outstanding success, its true value lay in its seminal qualities. Thus it was the progenitor of several direct descendants and, more important, created many of the genes that have been inherited by modern computers. The book tells how the first Pegasus was used to establish an enormous variety of new applications, and thus sowed the seeds for the ubiquitous use of computers today. At a time when computing was not a profession, not a science, not a business, the creation of Pegasus was the work of visionaries. The amazing, even obsessional, atmosphere of their activity is captured at first hand in this book, done by the few survivors.

NATIONAL BESTSELLER • Alex Kershaw, author of *The Longest Winter* and *The Liberator*, returns with an utterly immersive, adrenaline-driven account of D-Day combat. "Meet the assaulters: pathfinders plunging from the black, coxswains plowing the whitecaps, bareknuckle Rangers scaling sheer rock . . . Fast-paced and up close, this is history's greatest story reinvigorated as only Alex Kershaw can."—Adam Makos, *New York Times* bestselling author of *Spearhead* and *A Higher Call* Beginning in the predawn darkness of June 6, 1944, *The First Wave* follows the remarkable men who carried out D-Day's most perilous missions. The charismatic, unforgettable cast includes the first American paratrooper to touch down on Normandy soil; the glider pilot who braved anti-aircraft fire to crash-land mere yards from the vital Pegasus Bridge; the brothers who led their troops onto Juno Beach under withering fire; as well as a French commando, returning to his native land, who fought to destroy German strongholds on Sword Beach and beyond. Readers will experience the sheer grit of the Rangers who scaled Pointe du Hoc and the astonishing courage of the airborne soldiers who captured the Merville Gun Battery in the face of devastating enemy counterattacks. The first to fight when the stakes were highest and the odds longest, these men would determine the fate of the invasion of Hitler's fortress Europe—and the very history of the twentieth century. The result is an epic of close combat and extraordinary heroism. It is the capstone Alex Kershaw's remarkable career, built on his close friendships with D-Day survivors and his intimate understanding of the Normandy battlefield. For the seventy-fifth anniversary, here is a fresh take on World War II's longest day. Praise for *The First Wave*: "Masterful... readers will feel the sting of the cold surf, smell the acrid cordite that hung in the air, and duck the zing of machine-gun bullets whizzing overhead. *The First Wave* is an absolute triumph."—James M. Scott, bestselling author of *Target Tokyo* "These pages ooze with the unforgettable human drama of history's most consequential invasion."—John C. McManus, author of *The Dead* and *Those About to Die*

Our civilisation stands on the brink of catastrophe. Our thirst for energy has led to threats from global warming, nuclear disaster and conflict in oil-rich countries. We are running out of options. Solar power, Keith Barnham argues, is the answer. In this eye-opening book, he shows how a solar revolution is developing based on one of Einstein's lesser known discoveries, one that gave us laptop computers and mobile phones. An accessible guide to renewable technology and a hard-hitting critique of the arguments of solar sceptics, *The Burning Answer* outlines a future in which the fuel for electric cars will be generated on our rooftops. It is, above all, an impassioned call to arms to join the solar revolution before it's too late.

Sonia Faruqi had an Ivy League degree and a job on Wall Street. But when the banking industry collapsed, she found herself on a small organic dairy farm that would change her life for the better, although it didn't seem that way in the beginning. First, she had to come to grips with cows shocked into place, cannibal chickens, and "free range" turkeys that went nowhere. But there were bright lights as well: happy, frolicking calves on a veal farm, and farmers who cared as much about the animals as their pocketbooks. What started as a two-week volunteer vacation turned into a journey that reached into the darkest recesses of the animal agriculture industry. Surrounded by a colorful cast of characters, Faruqi's quest to discover the truth about modern agribusiness took her around the world. Lively, edgy, and balanced, *Project Animal Farm* sheds light on the international agribusiness, with the ultimate goal of improving the lives of farm animals here at home. Using her finance background to forecast the future of agriculture, Faruqi discusses the changes we need to make—using our forks and our votes.

Operations Research: 1934-1941," 35, 1, 143-152; "British The goal of the Encyclopedia of Operations Research and Operational Research in World War II," 35, 3, 453-470; Management Science is to provide to decision makers and "U. S. Operations Research in World War II," 35, 6, 910-925; problem solvers in business, industry, government and and the 1984 article by Harold Lardner that appeared in academia a comprehensive overview of the wide range of Operations Research: "The Origin of Operational Research," ideas, methodologies, and synergistic forces that combine to 32, 2, 465-475. form the preeminent decision-aiding fields of operations research and management science (OR/MS). To this end, we The Encyclopedia contains no entries that define the fields enlisted a distinguished international group of academics of operations research and management science. OR and MS and practitioners to contribute articles on subjects for are often equated to one another. If one defines them by the which they are renowned. methodologies they employ, the equation would probably The editors, working with the Encyclopedia's Editorial stand inspection. If one defines them by their historical Advisory Board, surveyed and divided OR/MS into specific developments and the classes of problems they encompass, topics that collectively encompass the foundations, applica the equation becomes fuzzy. The formalism OR grew out of tions, and emerging elements of this ever-changing field. We the operational problems of the British and U. s. military also wanted to establish the close associations that OR/MS efforts in World War II.

Piercing and hard-hitting, an international expert pin-points the menacing rise of a radical ideology that is fueling ISIS and terror cells world-wide. More than thirteen years ago after the "War on Terror" was declared, many in the West now feel less secure than ever before. Many security experts believe global Jihad is on the rise throughout the West, and yet these same experts do not know how to stop the rising tide. Military action abroad and police action at home have only attended to the symptoms of terrorism, not the cause. The root, according to Dr. Ibrahim, is actually the extreme ideology of Wahhabism—the puritanical, reactionary, isolationist, xenophobic, and bigoted sect of Sunni Islam that has been the ideological bedrock of the state of Saudi Arabia since its original rise in the 18th Century.

Foreign policy, socio-economic factors, alienation, and identity are often invoked in explaining the rise in radicalization, and while they do have a role to play, these are secondary factors. The primary cause is ideology, and Dr. Ibrahim places the origins of this radical extremism in historic context in a cogent manner, while also articulating specific policy goals and social action points going forward. Much of it hinges on altering decades of geopolitics regarding Saudi Arabia. In his groundbreaking *Radical Origins*, Dr. Ibrahim will provide an accessible primer on radicalism, an understanding of jihadist history, and a way forward, debunking misconceptions about Islam and this jihadist offshoot along the way. This remarkable work culminates in a powerful body of evidence about how to contain, reduce, and stop the spread of radicalization once and for all.

Computer Engineering: A DEC View of Hardware Systems Design focuses on the principles, progress, and concepts in the design of hardware systems. The selection first elaborates on the seven views of computer systems, technology progress in logic and memories, and packaging and manufacturing. Concerns cover power supplies, DEC computer packaging generations, general packaging, semiconductor logic technology, memory technology, measuring (and creating) technology progress, structural levels of a computer system, and packaging levels-of-integration. The manuscript then examines transistor circuitry in the Lincoln TX-2, digital modules, PDP-1 and other 18-bit computers, PDP-8 and other 12-bit computers, and structural levels of the PDP-8. The text takes a look at cache memories for PDP-11 family computers, buses, DEC LSI-11, and design decisions for the PDP-11/60 mid-range minicomputer. Topics include reliability and maintainability, price/performance balance, advances in memory technology, synchronization of data transfers, error control strategies, PDP-11/45, PDP-11/20, and cache organization. The selection is a fine reference for practicing computer designers, users, programmers, designers of peripherals and memories, and students of computer engineering and computer science.

The innovative, British-designed computers named Pegasus first appeared in 1956 and enjoyed long and successful careers. This book discusses the origins of the Pegasus project from wartime know-how through to the involvement of Ferranti Ltd, giving tribute to the remarkable achievements of the individual designers. The book also details the technical aspects of Pegasus from an engineering and programming perspective, as well as comparing its performance with other contemporary designs and modern PCs. The role of Pegasus in the marketplace, and its influence on the UK and international computer industry of the 1960s and 1970s are considered. This book will be of interest to all those keen to learn more about one of the most influential computer artefacts in the history of the British information revolution.

Outlines the therapeutic and education benefits students with disabilities gain from involvement in drama

The fall of the Bastille on July 14, 1789 has become the commemorative symbol of the French Revolution. But this violent and random act was unrepresentative of the real work of the early revolution, which was taking place ten miles west of Paris, in Versailles. There, the nobles, clergy and commoners of France had just declared themselves a republic, toppling a rotten system of aristocratic privilege and altering the course of history forever. The Revolution was led not by angry mobs, but by the best and brightest of France's growing bourgeoisie: young, educated, ambitious. Their aim was not to destroy, but to build a better state. In just three months they drew up a Declaration of the Rights of Man, which was to become the archetype of all subsequent Declarations worldwide, and they instituted a system of locally elected administration for France which still survives today. They were determined to create an entirely new system of government, based on rights, equality and the rule of law. In the first three years of the Revolution they went a long way toward doing so. Then came Robespierre, the Terror and unspeakable acts of barbarism. In a clear, dispassionate and fast-moving narrative, Ian Davidson shows how and why the Revolutionaries, in just five years, spiralled from the best of the Enlightenment to tyranny and the Terror. The book reminds us that the Revolution was both an inspiration of the finest principles of a new democracy and an awful warning of what can happen when idealism goes wrong.

The revised and updated edition of an insider's story on the legendary '60s rock group Love's rise and fall.

In this volume of 15 articles, contributors from a wide range of disciplines present their analyses of Disney movies and Disney music, which are mainstays of popular culture. The power of the Disney brand has heightened the need for academics to question whether Disney's films and music function as a tool of the Western elite that shapes the views of those less empowered. Given its global reach, how the Walt Disney Company handles the role of race, gender, and sexuality in social structural inequality merits serious reflection according to a number of the articles in the volume. On the other hand, other authors argue that Disney productions can help individuals cope with difficult situations or embrace progressive thinking. The different approaches to the assessment of Disney films as cultural artifacts also vary according to the theoretical perspectives guiding the interpretation of both overt and latent symbolic meaning in the movies. The authors of the 15 articles encourage readers to engage with the material, showcasing a variety of views about the good, the bad, and the best way forward.

Today's unprecedented pace of change leaves many people wondering what new technologies are doing to our lives. Has social media robbed us of our privacy and fed us with false information? Are the decisions about our health, security and finances made by computer programs inexplicable and biased? Will these algorithms become so complex that we can no longer control them? Are robots going to take our jobs? Can we provide housing for our ever-growing urban populations? And has our demand for energy driven the Earth's climate to the edge of catastrophe? John Browne argues that we need not and must not put the brakes on technological advance. Civilization is founded on engineering innovation; all progress stems from the human urge to make things and to shape the world around us, resulting in greater freedom, health and wealth for all. Drawing on history, his own experiences and conversations with many of today's great innovators, he uncovers the basis for all progress and its consequences, both good and bad. He argues compellingly that the same spark that triggers each innovation can be used to counter its negative consequences. *Make, Think, Imagine* provides an eloquent blueprint for how we can keep moving towards a brighter future.

From the first digital computer to the dot-com crash—a story of individuals, institutions, and the forces that led to a series of dramatic transformations. This engaging history covers

modern computing from the development of the first electronic digital computer through the dot-com crash. The author concentrates on five key moments of transition: the transformation of the computer in the late 1940s from a specialized scientific instrument to a commercial product; the emergence of small systems in the late 1960s; the beginning of personal computing in the 1970s; the spread of networking after 1985; and, in a chapter written for this edition, the period 1995-2001. The new material focuses on the Microsoft antitrust suit, the rise and fall of the dot-coms, and the advent of open source software, particularly Linux. Within the chronological narrative, the book traces several overlapping threads: the evolution of the computer's internal design; the effect of economic trends and the Cold War; the long-term role of IBM as a player and as a target for upstart entrepreneurs; the growth of software from a hidden element to a major character in the story of computing; and the recurring issue of the place of information and computing in a democratic society. The focus is on the United States (though Europe and Japan enter the story at crucial points), on computing per se rather than on applications such as artificial intelligence, and on systems that were sold commercially and installed in quantities.

World War I is often viewed as a war fought by armies of millions living and fighting in trenches, aided by brutal machinery that cost the lives of many. But behind all of this an intellectual war was also being fought between engineers, chemists, code-breakers, physicists, doctors, mathematicians, and intelligence gatherers. This hidden war was to make a positive and lasting contribution to how war was conducted on land, at sea, and in the air, and most importantly, life at home. *Secret Warriors* provides an invaluable and fresh history of the World War I, profiling a number of the key incidents and figures which lead to great leaps forward for the twentieth Century. Told in a lively and colorful narrative style, *Secret Warriors* reveals the unknown side of this tragic conflict.

The Gospel of Thomas is a manuscript that records sayings, attributed to Jesus, of rich spiritual content.

Leading into the 400th anniversary of the voyage of the Mayflower, Martyn Whittock examines the lives of the "saints" (members of the Separatist puritan congregations) and "strangers" (economic migrants) on the original ship who collectively became known to history as "the Pilgrims." The story of the Pilgrims has taken on a life of its own as one of our founding national myths—their escape from religious persecution, the dangerous transatlantic journey, that brutal first winter. Throughout the narrative, we meet characters already familiar to us through Thanksgiving folklore—Captain Jones, Myles Standish, and Tisquantum (Squanto)—as well as new ones. There is Mary Chilton, the first woman to set foot on shore, and asylum seeker William Bradford. We meet fur trapper John Howland and little Mary More, who was brought as an indentured servant. Then there is Stephen Hopkins, who had already survived one shipwreck and was the only Mayflower passenger with any prior American experience. Decidedly un-puritanical, he kept a tavern and was frequently chastised for allowing drinking on Sundays. Epic and intimate, *Mayflower Lives* is a rich and rewarding book that promises to enthrall readers of early American history.

A revisionist assessment of Gandhi's life and conflicted character includes coverage of his privileged upbringing in Gujarat, early civil rights campaigns, famous embrace of civil disobedience in the 1920s and 1930s and his 1948 assassination months after India's independence.

A timely and important book that explores the history and future, as well as the societal and ethical implications, of Artificial Intelligence as we approach the cusp of a fourth industrial revolution Zarkadakis explores one of humankind's oldest love-hate relationships—our ties with artificial intelligence, or AI. He traces AI's origins in ancient myth, through literary classics like *Frankenstein*, to today's sci-fi blockbusters, arguing that a fascination with AI is hardwired into the human psyche. He explains AI's history, technology, and potential; its manifestations in intelligent machines; its connections to neurology and consciousness, as well as—perhaps most tellingly—what AI reveals about us as human beings. In *Our Own Image* argues that we are on the brink of a fourth industrial revolution—poised to enter the age of Artificial Intelligence as science fiction becomes science fact. Ultimately, Zarkadakis observes, the fate of AI has profound implications for the future of science and humanity itself.

American Muslim religious liberty lawyer Asma Uddin has long considered her work defending people of all faiths to be a calling more than a job. Yet even as she seeks equal protection for Evangelicals, Sikhs, Muslims, Native Americans, Jews, and Catholics alike, she has seen an ominous increase in attempts to criminalize Islam and exclude Muslim Americans from those protections. Somehow, the view that Muslims aren't human enough for human rights or constitutional protections is moving from the fringe to the mainstream—along with the claim "Islam is not a religion." This conceit is not just a threat to the First Amendment rights of American Muslims. It is a threat to the freedom of all Americans. Her new book reveals a significant but overlooked danger to our religious liberty. Woven throughout this national saga is Uddin's own story and the stories of American Muslims and other people of faith who have faced tremendous indignities as they attempt to live and worship freely. Combining her experience of Islam as a religious truth and her legal and philosophical appreciation that all individuals have a right to religious liberty, Uddin examines the shifting tides of American culture and outlines a way forward for individuals and communities navigating today's culture wars.

This is a study of a method of thinking in the social sciences known as the loop concept. This concept underlies the notions of feedback and circular causality. The author attempts to illuminate the significance of classical and contemporary feedback thinking in social science and social policy.

An update edition of *Solomon's Code*—now *The A.I. Generation*—the thought-provoking examination of artificial intelligence and how it reshapes human values, trust, and power around the world. Whether in medicine, money, or love, technologies powered by forms of artificial intelligence are playing an increasingly prominent role in our lives. As we cede more decisions to thinking machines, we face new questions about staying safe, keeping a job and having a say over the direction of our lives. The answers to those questions might depend on your race, gender, age, behavior, or nationality. New AI technologies can drive cars, treat damaged brains and nudge workers to be more productive, but they also can threaten, manipulate, and alienate us from others. They can pit nation against nation, but they also can help the global community tackle some of its greatest challenges—from food crises to global climate change. In clear and accessible prose, global trends and strategy adviser Olaf Groth, AI scientist and social entrepreneur Mark Nitzberg, along with seasoned economics reporter Dan Zehr, provide a unique human-focused, global view of humanity in a world of thinking machines.

This open access book proposes a novel approach to Artificial Intelligence (AI) ethics. AI offers many advantages: better and faster medical diagnoses, improved business processes and efficiency, and the automation of boring work. But undesirable and ethically problematic consequences are possible too: biases and discrimination, breaches of privacy and security, and societal distortions such as unemployment, economic exploitation and weakened democratic processes. There is even a prospect, ultimately, of super-intelligent machines replacing humans. The key question, then, is: how can we benefit from AI while addressing its ethical problems? This book presents an innovative answer to the question by presenting a different perspective on AI and its ethical consequences. Instead of looking at individual AI techniques, applications or ethical issues, we can understand AI as a system of ecosystems, consisting of numerous interdependent technologies, applications and stakeholders. Developing this idea, the book explores how AI ecosystems can be shaped to foster human flourishing. Drawing on rich empirical insights and detailed conceptual analysis, it suggests practical measures to ensure that AI is used to make the world a better place.

A sweeping and original history of the Anglo-Saxons by national bestselling author Marc Morris. Sixteen hundred years ago Britain left the Roman Empire and swiftly fell into ruin. Grand cities and luxurious villas were deserted and left to crumble, and civil society collapsed into chaos. Into this violent and unstable world came foreign invaders from across the sea, and established themselves as its new masters. The Anglo-Saxons traces the turbulent history of these people across the next six centuries. It explains how their earliest rulers fought relentlessly against each other for glory and supremacy, and then were almost destroyed by the onslaught of the vikings. It explores how they abandoned their old gods for Christianity, established hundreds of churches and created dazzlingly intricate works of art. It charts the revival of towns and trade, and the origins of a familiar landscape of shires, boroughs and bishoprics. It is a tale of famous figures like King Offa, Alfred the Great and Edward the Confessor, but also features a host of lesser known characters - ambitious queens, revolutionary saints, intolerant monks and grasping nobles. Through their remarkable careers we see how a new society, a new culture and a single unified nation came into being. Drawing on a vast range of original evidence - chronicles, letters, archaeology and artefacts - renowned historian Marc Morris illuminates a period of history that is only dimly understood, separates the truth from the legend, and tells the extraordinary story of how the foundations of England were laid.

A masterly investigation into the classical roots of Western civilization, taking the reader on an illuminating journey from Troy, Athens, and Sparta to Utopia, Alexandria, and Rome. An authoritative and accessible study of the foundations, development, and enduring legacy of the cultures of Greece and Rome, centered on ten locations of seminal importance in the development of classical civilization. Starting with Troy, where history, myth and cosmology fuse to form the origins of classical civilization, Nigel Spivey explores the contrasting politics of Athens and Sparta, the diffusion of classical ideals across the Mediterranean world, classical science and philosophy, the eastward export of Greek culture with the conquests of Alexander the Great, the power and spread of the Roman imperium, and the long Byzantine twilight of Antiquity.

The idea of world leaders gathering in the midst of economic crisis is now familiar. But 1944's meeting at Bretton Woods was different. It was the only time countries agreed to overhaul the structure of the international monetary system. Their resulting system presided over the longest period of growth in history. Its demise decades later was at least partly responsible for the financial collapse of the 2000s. But what everyone has assumed to be a dry economic conference was in fact replete with drama. The delegates spent half the time at each other's throats and the other half drinking in the bar. All the while, war in Europe raged on. The heart of the conference was the love-hate relationship between John Maynard Keynes — the greatest economist of his day, who suffered a heart attack at the conference — and his American counterpart Harry Dexter White (later revealed to be passing information to Russian spies). Both were intent on creating a settlement which would prevent another war while at the same time defending their countries' interests. Drawing on unpublished accounts, diaries, and oral histories, *The Summit* describes the conference in stunning color and clarity. Written with exceptional verve and narrative pace, this is an extraordinary debut from a talented new historian.

Behavioural and Mental Health Research, 2nd Edition is a thoroughly revised, updated, and expanded version of the invaluable guide to research skills for psychologists, psychiatrists, nurses, social workers, and graduates training in those disciplines. It provides a series of practical guidelines for starting and carrying through any research project: from selecting the most appropriate approach, using computers, and analysing data to applying for funding, writing reports, and even how to enjoy your research! This second edition also includes chapters on methods of assessment, studying people in their social settings, and service evaluation and audit methods. By considering a wide spectrum of different research methods the book gives the reader an insight into the assumptions underlying research. Quantitative methods using group design are described without assuming an advanced level of statistical knowledge. Qualitative, language-based methods and single case studies are explored as possible alternatives.

The previously untold—and previously highly classified—story of the conflux of espionage and technology, with a compelling narrative rich with astonishing revelations taking readers from World War II to the internet age. As the digital era become increasingly pervasive, the intertwining forces of computers and espionage are reshaping the entire world; what was once the preserve of a few intelligence agencies now affects us all. Corera's compelling narrative takes us from the Second World War through the Cold War and the birth of the internet to the present era of hackers and surveillance. The book is rich with historical detail and characters, as well as astonishing revelations about espionage carried out in recent times by the UK, US, and China. Using unique access to the National Security Agency, GCHQ, Chinese officials, and senior executives from some of the most powerful global technology companies, Gordon Corera has gathered compelling stories from heads of state, hackers and spies of all stripes. *Cyberspies* is a ground-breaking exploration of the new space in which the worlds of espionage, diplomacy, international business, science, and technology collide.

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.

The authors, who were participants in Alvey, provide a personal and hands-on review of the Program, the participants, and the results.

Vibrantly and perceptively told, this is the story of one remarkable year—a vivid history of exhilarating triumphs and shattering defeats around the world. 1956 was one of the most remarkable years of the twentieth century. All across the globe, ordinary people spoke out, filled the streets and city squares, and took up arms in an attempt to win their freedom. In this dramatic, page-turning history, Simon Hall takes the long view of the year's events—putting them in their post-war context and looking toward their influence on the counterculture movements of the 1960s—to tell the story of the year's epic, global struggles from the point of view of the freedom fighters, dissidents, and countless ordinary people who worked to overturn oppressive and authoritarian systems in order to build a brave new world. It was an

epic contest. 1956 is the first narrative history of the year as a whole—and the first to frame its tumultuous events as part of an interconnected, global story of revolution.

With more substantial funding from research organizations and industry, numerous large-scale applications, and recently developed technologies, the Semantic Web is quickly emerging as a well-recognized and important area of computer science. While Semantic Web technologies are still rapidly evolving, Foundations of Semantic Web Technologies focuses

A groundbreaking investigation into the early life of the iconic Akira Kurosawa in connection to his most famous film—taking us deeper into Kurosawa and his world. Although he is a filmmaker of international renown, Kurosawa and the story of his formative years remain as enigmatic as his own Rashomon. Paul Anderer looks back at Kurosawa before he became famous, taking us into the turbulent world that made him. We encounter Tokyo, Kurosawa's birthplace, which would be destroyed twice before his eyes; explore early twentieth-century Japan amid sweeping cross-cultural changes; and confront profound family tragedy alongside the horror of war. From these multiple angles we see how Kurosawa's life and work speak to the epic narrative of modern Japan's rise and fall. With fresh insights and vivid prose, Anderer engages the Great Earthquake of 1923, the dynamic energy that surged through Tokyo in its wake, and its impact on Kurosawa as a youth. When the city is destroyed again, in the fire-bombings of 1945, Anderer reveals how Kurosawa grappled with the trauma of war and its aftermath, and forged his artistic vision. Finally, he resurrects the specter and the voice of a gifted and troubled older brother—himself a star in the silent film industry—who took Kurosawa to see his first films, and who led a rebellious life until his desperate end. Bringing these formative forces into focus, Anderer looks beyond the aura of Kurosawa's fame and leads us deeper into the tragedies and the challenges of his past. Kurosawa's Rashomon uncovers how a film like Rashomon came to be, and why it endures to illuminate the shadows and the challenges of our present.

Pegasus the Early Seminal Computer Bright Pen

As groundbreaking synthesis that promises to shift our understanding of the mind-brain connection and its relationship with our bodies. We understand the workings of the human body as a series of interdependent physiological relationships: muscle interacts with bone as the heart responds to hormones secreted by the brain, all the way down to the inner workings of every cell. To make an organism function, no one component can work alone. In light of this, why is it that the accepted understanding that the physical phenomenon of the mind is attributed only to the brain? In *The Embodied Mind*, internationally renowned psychiatrist Dr. Thomas R. Verny sets out to redefine our concept of the mind and consciousness. He brilliantly compiles new research that points to the mind's ties to every part of the body. *The Embodied Mind* collects disparate findings in physiology, genetics, and quantum physics in order to illustrate the mounting evidence that somatic cells, not just neural cells, store memory, inform genetic coding, and adapt to environmental changes—all behaviors that contribute to the mind and consciousness. Cellular memory, Verny shows, is not just an abstraction, but a well-documented scientific fact that will shift our understanding of memory. Verny describes single-celled organisms with no brains demonstrating memory, and points to the remarkable case of a French man who, despite having a brain just a fraction of the typical size, leads a normal life with a family and a job. *The Embodied Mind* shows how intelligence and consciousness—traits traditionally attributed to the brain alone—also permeate our entire being. Bodily cells and tissues use the same molecular mechanisms for memory as our brain, making our mind more fluid and adaptable than we could have ever imaged.

A startling and vivid account of World War I that uncovers how wartime code-breaking, aeronautics, and scientific research that laid the foundation for much of the innovations of the twentieth century. World War I is often viewed as a war fought by armies of millions living and fighting in trenches, aided by brutal machinery that cost the lives of many. But behind all of this an intellectual war was also being fought between engineers, chemists, code-breakers, physicists, doctors, mathematicians, and intelligence gatherers. This hidden war was to make a positive and lasting contribution to how war was conducted on land, at sea, and in the air, and most importantly, life at home. *Secret Warriors* provides an invaluable and fresh history of the World War I, profiling a number of the key incidents and figures which lead to great leaps forward for the twentieth century. Told in a lively and colorful narrative style, *Secret Warriors* reveals the unknown side of this tragic conflict.

Using the little-known equation $E=hf$ as the foundation for a compelling new vision, *The Burning Answer* reveals the importance of embracing solar energy as the only solution to the global energy crisis.

Why were Generals Lee and Jackson so successful in their partnership in trying to win the war for the South? What was it about their styles, friendship, even their faith, that cemented them together into a fighting machine that consistently won despite often overwhelming odds against them? *The Great Partnership* has the power to change how we think about Confederate strategic decision-making and the value of personal relationships among senior leaders responsible for organizational survival. Those relationships in the Confederate high command were particularly critical for victory, especially the one that existed between the two great Army of Northern Virginia generals. It has been over two decades since any author attempted a joint study of the two generals. At the very least, the book will inspire a very lively debate among the thousands of students of Civil War history. At best, it will significantly revise how we evaluate Confederate strategy during the height of the war and our understanding of why, in the end, the South lost.

Foreword. A transformed scientific method. Earth and environment. Health and wellbeing. Scientific infrastructure. Scholarly communication.

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