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Of Reason In A Programmed
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Islands In The Cyberstream: Seeking Havens Of Reason In A Programmed Society

This book explores how digital technology is altering the relationships between people and how the very nature of interface itself needs to be reconsidered to reflect this - how we can make sense of each other, handle ambiguities, negotiate differences, empathise and collectively make skilled judgments in our modern society. The author presents new directions for research at the

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relational-transactional intersection of contrasting disciplines of arts, science and technology, and in so doing, presents philosophical and artistic questions for future research on human connectivity in our digital age. The book presents frameworks and methods for conducting research and study of tacit engagement that includes ethnography, experiments, discourse analysis, gesture analysis, psycholinguistic analysis, artistic experiments, installations, and improvisation. Case studies illustrate the use of various methods and the application and emergence of frameworks. Tacit Engagement will be of interest to

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researchers, designers, teachers and students concerned with new media, social media and communications networks; interactive interfaces, including information systems, knowledge management, robotics, and presence technologies. Not since Michael Polanyi have we seen such wise science about the tacit: how we know more than we can tell. Gill brings to the present era of design and data a profoundly needed perspective on meaning that comes from social dialogue, skilled performance, relational gesture and rhythm. - Sha Xin Wei, Ph.D. (Synthesis, ASU)

Why do we find ourselves living in an Information Society? How did

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the collection, processing, and communication of information come to play an increasingly important role in advanced industrial countries relative to the roles of matter and energy? And why is this change recent--or is it? James Beniger traces the origin of the Information Society to major economic and business crises of the past century. In the United States, applications of steam power in the early 1800s brought a dramatic rise in the speed, volume, and complexity of industrial processes, making them difficult to control. Scores of problems arose: fatal train wrecks, misplacement of freight cars for months at a time, loss of

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shipments, inability to maintain high rates of inventory turnover. Inevitably the Industrial Revolution, with its ballooning use of energy to drive material processes, required a corresponding growth in the exploitation of information: "the Control Revolution." Between the 1840s and the 1920s came most of the important information-processing and communication technologies still in use today: telegraphy, modern bureaucracy, rotary power printing, the postage stamp, paper money, typewriter, telephone, punch-card processing, motion pictures, radio, and television. Beniger shows that more recent developments in

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microprocessors, computers, and telecommunications are only a smooth continuation of this "Control Revolution." Along the way he touches on many fascinating topics: why breakfast was invented, how trademarks came to be worth more than the companies that own them, why some employees wear uniforms, and whether time zones will always be necessary. The book is impressive not only for the breadth of its scholarship but also for the subtlety and force of its argument. It will be welcomed by sociologists, economists, historians of science and technology, and all curious in general.

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Arguing that within the next fifty years machines will equal humans not only in reasoning power but also in their ability to perceive, interact with, and change their environment, the author describes the tremendous technological advances possible in the field of robotics

Feminist Pilgrimage: Journeys of Discovery is a collection of personal essays by contemporary feminist educators, scholars, artists, and writers.

Journeys of Discovery

Software and Memory

Political Illusion and Reality

Social Fears and Religious
Fantasies

On the Muslim Question

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The Turing Test

Technological and Economic
Origins of the Information Society
Islands in the Cyberstream Seeking
Havens of Reason in a Programmed
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Our willingness and faithfulness to pray for others is the hallmark of an effective prayer life. Sometimes our prayers are hindered because we focus only on our needs or requests. But the church has been commissioned to make disciples of all nations, and it is the responsibility of each member to pray for others in our world. Well-organized and inspirational, The Prayer Manifesto for the Globally Conscious explores the importance of having a heart to pray for God's people across the world by denying ourselves and taking up our cross to follow God. Author Lischa T.

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Brooks uses scriptural examples and humorous, personal stories to illustrate how to develop an effective personal prayer life and focus on our responsibility to pray for others. In addition to finding a deeper purpose and understanding of prayer principles, you can learn how to:

- begin your prayer with worship;
- conduct an examination of your attitudes and actions;
- pray with the Word of God;
- take time to listen to the Father;
- establish prayer partners; and
- connect with a local church body.

Establishing a life of prayer requires more than just passion and desire; it involves a commitment to applying the principles outlined in the Word of God every day. Develop a rich prayer life committed to God with The Prayer Manifesto for the Globally Conscious. Does gender play a role in library

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information technology (I.T.)? For the last several decades, libraries have primarily employed women, whereas I.T. jobs have been held by men. What happens when the two collide? What is it like for women who are working for I.T. within the library? Has it changed over time? Through personal narratives, we explore these questions and seek to provide guidance and encouragement for women and men in library I.T., those pursuing a career in library I.T., and library management. The collection includes themes concerning "Imposter Syndrome," career trajectory, experiences of sexism and biases. Contributors also offer advice and encouragement to those entering or already in the field. Examples of positions held by the contributors include managers, web developers, system librarians,

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programmers, and consultants. This collection provides a voice for women in library I.T., bringing their experiences from the margins to the center, and encouraging conversation for positive change.

Open labs provide spaces for interaction across organizational boundaries. They create a huge potential to advance innovation processes. Making use of this potential, however, is not an easy task. It requires diligence, sophistication and perseverance from everyone involved in the implementation and the management of the lab. This book brings together contributions from leading experts in engineering, design, strategy, foresight and marketing research as well as policy makers and practitioners from an open lab. It explores from different perspectives

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how open labs can be used to facilitate innovation and what needs to be done to make the operation of an open lab successful. The topics addressed in the book include: interaction patterns and mediation in open labs, innovation technology, resource management, ecosystem and platform design, cultural translation, productivity, multi-channel communication, and more. The first part of the book is dedicated to the study of JOSEPHS®, an open lab in Germany. It gives insight in the practical challenges of running an open lab and its role in the local business ecosystem. The other parts of the book discuss the phenomenon of open labs in general and its significance in different contexts all around the world.

Programmed Visions

A Critical Oral History on Technology

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in Libraries and Archives
Cyberspace

The Muslim Question in Europe

How Algorithms Took Over Our

Markets, Our Jobs, and the World

Renewal of the Social Organism

Innovating in the Open Lab

*An examination of the ways
cyberspace is changing both the
theory and the practice of
international relations.*

*"Examines the limitations and
challenges emerging from the "maker
movement" emphasizing the critical
work that is being done to cultivate
anti-oppressive, inclusive and
equitable making environments.*

*Makerspaces in libraries are
especially focused upon"*

*How should we understand and
design for fun as a User Experience?*

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This new edition of a classic book is for students, designers and researchers who want to deepen their understanding of fun in the context of HCI. The 2003 edition was the first book to do this and has been influential in broadening the field. It is the most downloaded book in the Springer HCI Series. This edition adds 14 new chapters that go well beyond the topics considered in 2003. New chapter topics include: online dating, interactive rides, wellbeing, somaesthetics, design fiction, critical design and participatory design methods. The first edition chapters are also reprinted, with new notes by their authors setting the context in which the 2003 chapter was written and explaining the developments since

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then. Taken with the new chapters this adds up to a total of 35 theoretical and practical chapters written by the most influential thinkers from academia and industry in this field. Recent developments in information processing systems have driven the advancement of computational methods in the engineering realm. New models and simulations enable better solutions for problem-solving and overall process improvement. The Handbook of Research on Advanced Computational Techniques for Simulation-Based Engineering is an authoritative reference work representing the latest scholarly research on the application of computational models to improve the quality of engineering design.

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Featuring extensive coverage on a range of topics from various engineering disciplines, including, but not limited to, soft computing methods, comparative studies, and hybrid approaches, this book is a comprehensive reference source for students, professional engineers, and researchers interested in the application of computational methods for engineering design.

Tacit Engagement

*Jesse Shera, Librarianship, and
Information Science*

*The Prayer Manifesto for the Globally
Conscious*

*Socialist Librarian of the French
Third Republic*

*Engaging the Prophetic Insights of
Jacques Ellul*

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Being the One
Four Saints and an Angel

"This volume has three parts: the first focuses on cyberspace itself; the second on some of the major forms of malevolence or threats that have become one of its defining characteristics; and the third on possible responses to these threats. One of the most significant features of cyberspace, however, is that it is becoming a risky place for the entire spectrum of users: nation-states, nongovernmental and transnational organizations, commercial enterprises, and individuals. Yet it is a space of opportunities -- for benevolent, neutral, and malevolent actors. Moreover, the authors identify and assess the challenges and threats to security that can

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arise in cyberspace because of its unique nature. In the final section, the authors discuss a variety of responses, with some suggesting that the most favored options being pursued by the United States are poorly conceived and ill-suited to the tasks at hand"--Publisher's web site.

"History often provides insight into the present. Consider the American South one hundred and fifty years ago, for example. There, human rights and economic servitude were compressed onto a single domain for black Americans. They became a means of production that could be bought and sold as a commodity. In many parts of the South, it was forbidden to teach blacks to read. Control by law of education, part of culture, was found necessary to

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subordinate human rights to economics. The domain of rights and economics thus also engulfed culture." --Joseph Weizenbaum, from the foreword Culture, politics, economics--these are the three core activities of society; the health of any society depends on a harmonious interaction among these three activities. And, according to Rudolf Steiner, this is impossible unless they are autonomous to the degree that they can each find their own essential character. In his foreword, Joseph Weizenbaum observes that those who framed the United States Constitution understood this--at least partially--when they developed the doctrine of a separate church and state. These essays cover a range of subjects--money, the

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division of labor, human motivation,
and education. They offer

refreshing insights into the nature
of modern society as well as
guidance for solving today's
pressing social problems.

Contents: Foreword by Joseph
Weizenbaum Four Articles from the
Newspaper The Social Future: "The
Threefold Social Organism,
Democracy, and Socialism" "The
International Economy and the
Threefold Social Order" "Culture,
Law, and Economics" The
Threefold Social Order and Social
Trust: Capital and Credit" Twenty
Articles from the Newspaper The
Threefold Social Order "The
Threefold Division of the Social
Organism, a Necessity of the Age"
"International Aspects of the
Threefold Social Order" "Marxism

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Of Reason In A Programmed
and the Threefold Social Order"

"Society
"The Threefold Social Order and
Educational Freedom" "What Is
Needed?" "Ability for Work, Will to
Work, and the Threefold Social
Order" "What Socialists Do Not
See" "Socialist Stumbling Blocks"
"What the 'New Spirit' Demands"
"Economic Profit and the Spirit of
the Age" "Cultivation of the Spirit
and Economic Life" "Law and
Economics" "Social Spirit and
Socialist Superstition" "The
Pedagogical Basis of the Waldorf
School" "Fundamental Fallacy in
Social Thought" "The Roots of
Social Life" "The Basis of the
Threefold Social Order" "Real
Enlightenment as the Basis of
Social Thought" "Longing for New
Thoughts" "Wanted: Insight!"
Appendix: "An Appeal to the

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German Nation and to the Civilized
World" "The Way to Save the
German Nation"

Why "the Muslim question" is really about the West and its own anxieties—not Islam In this fearless, original book, Anne Norton demolishes the notion that there is a "clash of civilizations" between the West and Islam. What is really in question, she argues, is the West's commitment to its own ideals: to democracy and the Enlightenment trinity of liberty, equality, and fraternity. In the most fundamental sense, the Muslim question is about the values not of Islamic, but of Western, civilization.

A radically new cosmological view from a groundbreaking neuroscientist who places the human brain at the center of

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humanity's universe. Renowned neuroscientist Miguel Nicolelis introduces a revolutionary new theory of how the human brain evolved to become an organic computer without rival in the known universe. He undertakes the first attempt to explain the entirety of human history, culture, and civilization based on a series of recently uncovered key principles of brain function. This new cosmology is centered around three fundamental properties of the human brain: its insurmountable malleability to adapt and learn; its exquisite ability to allow multiple individuals to synchronize their minds around a task, goal, or belief; and its incomparable capacity for abstraction. Combining insights from such diverse fields as

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neuroscience, mathematics,
evolution, computer science,
physics, history, art, and
philosophy, Nicolelis presents a
neurobiologically based manifesto
for the uniqueness of the human
mind and a cautionary tale of the
threats that technology poses to
present and future generations.
The Culture of the Internet and the
Internet as Cult

The Future of Robot and Human
Intelligence

????????????

Islands in the Cyberstream

Lucien Herr

Artificial Intelligence

Matrix Warrior

Human Operators: A Critical
Oral History of Technology in
Libraries is a collective oral

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history covering issues in technology in librarianship.

Readers get to "hear" the voices of librarians and archivists discussing tech topics from perspectives that are critical, social justice-oriented, feminist, anti-racist, and ecologically-minded.

In this book, French author Philippe Breton looks at the Internet and the culture surrounding it through the lens of its cultural background. Central in his insightful analysis of "the Internet as cult" are Teilhard de Chardin and the New Age, but he looks also at the fears, passions and pathologies

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of Alan Turing and Norbert Wiener, the imagined worlds of Isaac Asimov, William Gibson, J.G. Ballard and Timothy Leary, the prognostications and confessions of Bill Gates, Nicolas Negroponte and Bill Joy, and the philosophies of Saint-Simon, McLuhan and Pierre Levy. Dreams of a transparent and unmediated world, a world in which neither time nor space are relevant, a world without violence, without law, without a distinction between the public and the private, Breton contrasts with the reality of propaganda, computer viruses and surveillance, the world in which

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"sociality in the sense of mutuality disappears in favor of interactivity," where "experience with another and with the world in general is replaced by brief reactionary relations that hardly engage us at all." This English language translation is by David Bade."

When it was originally published in 2002, Sue Curry Jansen ' s " What Was Artificial Intelligence? " attracted little notice. The long essay was published as a chapter in Jansen ' s Critical Communication Theory, a book whose wisdom and erudition failed to register across the

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many fields it addressed. One explanation for the neglect, ironic and telling, is that Jansen ' s sheer scope as an intellectual had few competent readers in the communication studies discipline into which she published the book. “ What Was Artificial Intelligence? ” was buried treasure. In this mediastudies.press edition, Jansen ' s prescient autopsy of AI self-selling—the rhetoric of the masculinist sublime—is reprinted with a new introduction. Now an open access book, “ What Was Artificial Intelligence? ” is a message in a bottle, addressed to

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Musk, Bezos, and the latest
generation of AI myth-makers.

Dedicated to the life and work of
Heinz Von Foerster, this is a
double issue of the journal
"Cybernetics and Human
Knowing".

The Work of the SEC.

Automate This

The Control Revolution

Feminist Pilgrimage

Bias in Library Discovery

Color for the Sciences

**Finally comes the ultimate
book for all those seeking to
know more about the
philosophy behind The
Matrix and its sequels.
Suppose that this world is**

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**not what it seems, and that
humanity is actually just a
food source supplementing a
reign of machines. Welcome
to the premise behind the
world of The Matrix: the
movie phenomenon and
massive box-office series
that has also produced some
of film's most intelligent and
thoughtful moments in the
last ten years. In the Matrix
movies, "reality" is just a
dreamscape, a
representation that six
billion points of view agree
to agree is "real." So if the
only reality we know is a
cunning and elaborate**

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**façade, what then does that
signify for us? Matrix**

**Warrior gives us the means
to understand this premise
and its implications on our
knowledge of self and place.**

**Combining an in-depth
examination of the film with
philosophical inquiry and
the teachings of Castaneda,
Jake Horsley has produced
in Matrix Warrior a profound
yet witty analysis-and all
readers need to get**

**"unplugged." "This
accessible, entertaining
book will be an enjoyable
companion for those who
want to dig deeper into the**

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movies' rich universe."-

Booklist

**Cybersecurity Fundamentals:
A Real-World Perspective**
explains detailed concepts
within computer networks
and computer security in an
easy-to-understand way,
making it the perfect
introduction to the topic.

**This book covers
fundamental issues using
practical examples and real-
world applications to give
readers a rounded
understanding of the subject
and how it is applied. The
first three chapters provide
a deeper perspective on**

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computer networks, cybersecurity, and different types of cyberattacks that hackers choose to unleash on cyber environments. It then goes on to cover the types of major computer malware and cybersecurity attacks that shook the cyber world in the recent years, detailing the attacks and analyzing their impact on the global economy. The details of the malware codes that help the hacker initiate the hacking attacks on networks are fully described. It then covers high-tech cybersecurity programs,

devices, and mechanisms that are extensively adopted in modern security systems. Examples of those systems include intrusion detection systems (IDS), intrusion prevention systems (IPS), and security firewalls. It demonstrates how modern technologies can be used to create and manage passwords for secure data. This book also covers aspects of wireless networks and their security mechanisms. The details of the most commonly used Wi-Fi routers are provided with step-by-step procedures to

configure and secure them more efficiently. Test questions are included throughout the chapters to ensure comprehension of the material. Along with this book's step-by-step approach, this will allow undergraduate students of cybersecurity, network security, and related disciplines to gain a quick grasp of the fundamental topics in the area. No prior knowledge is needed to get the full benefit of this book. In this book, the author argues that the vehement controversies surrounding

European Muslims are better understood as persistent, unresolved intra-European political tensions rather than as a clash between "Islam and the West." This title was made Open Access by libraries from around the world through Knowledge Unlatched.

"Examines library discovery systems to show how the algorithms that power them are not the neutral and unbiased systems that they are claimed to be, but are affected by the human biases of programmers and the

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**commercial influences of
their production"--**

**We Can Do I.T.: Women in
Library Information
Technology**

Beyond Interaction

Cyberpolitics in

International Relations

**How to Develop a Heart to
Pray for Others**

□□□□□□□□□□□□□□

**Seeking Havens of Reason in
a Programmed Society**

**Verbal Behavior as the
Hallmark of Intelligence**

Golumbia, who worked as a
software designer for more than
ten years, argues that computers
are cultural "all the way

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down"--that there is no part of the apparent technological transformation that is not shaped by historical and cultural processes, or that escapes existing cultural politics.

In computer science, a search algorithm, is an algorithm for finding an item with specified properties among a collection of items. The items may be stored individually as records in a database; or may be elements of a search space defined by a mathematical formula or procedure, such as the roots of an equation with integer variables; or a combination of the two, such as the Hamiltonian circuits of a

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graph. This book presents research data in the study of computer search algorithms, including live soft-matter quantum computing; heuristic searches applied to the resolution of a relevant optimisation problem from the telecommunications domain; the emergence and advances of quantum search algorithms; an equilibrium network design problem for road traffic network; artificial neural networks; and evolutionary algorithms based on the concept of stochastic schemata exploiter. Are all governments—east and west, Muslim and secular, authoritarian and constitutional,

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Republican and Democratic—fundamentally the same, all of them under the extraordinary, growing power of “technique” and bureaucracy? Is all politics, then, just an illusory affair of lies, deception, propaganda, partisan passions, and chaos on the surface of government and party? In his vast and penetrating writings, Bordeaux sociologist Jacques Ellul (1912–1994) points in those directions. *Political Illusion and Reality* is a collection of twenty-three essays on Ellul’s political thought. Veteran as well as younger Ellul scholars, political leaders, activists, and pastors,

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discuss aspects of Ellul's thought as they relate to their own fields of study and political experience. Beginning with his 1936 essay "Fascism, Son of Liberalism," translated and published here in English for the first time, Ellul and these authors will provoke readers to think some new thoughts about politics and government, and think more deeply about the main issues we face in our politically divided and troubled times.

A comprehensive introduction to colorimetry from a conceptual perspective. Color for the Sciences is the first book on colorimetry to offer an account

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that emphasizes conceptual and formal issues rather than applications. Jan Koenderink's introductory text treats colorimetry—literally, “color measurement”—as a science, freeing the topic from the usual fixation on conventional praxis and how to get the “right” result. Readers of *Color for the Sciences* will learn to rethink concepts from the roots in order to reach a broader, conceptual understanding. After a brief account of the history of the discipline (beginning with Isaac Newton) and a chapter titled “Colorimetry for Dummies,” the heart of the book covers the main

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topics in colorimetry, including the space of beams, achromatic beams, edge colors, optimum colors, color atlases, and spectra. Other chapters cover more specialized topics, including implementations, metrics pioneered by Schrödinger and Helmholtz, and extended color space. Color for the Sciences can be used as a reference for professionals or in a formal introductory course on colorimetry. It will be especially useful both for those working with color in a scientific or engineering context who find the standard texts lacking and for professionals and students in image

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engineering, computer graphics, and computer science. Each chapter ends with exercises, many of which are open-ended, suggesting ways to explore the topic further, and can be developed into research projects. The text and notes contain numerous suggestions for demonstration experiments and individual explorations. The book is self-contained, with formal methods explained in appendixes when necessary.

Mind Children

A Real-World Perspective

Re-Making the Library

Makerspace

Funology 2

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Malevolent Actors, Criminal
Opportunities, and Strategic
Competition

Human Operators

The Cultural Logic of

Computation

A theoretical
examination of the
surprising emergence of
software as a guiding
metaphor for our
neoliberal world. New
media thrives on cycles
of obsolescence and
renewal: from
celebrations of cyber-
everything to Y2K, from
the dot-com bust to the
next big things—mobile

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mobs, Web 3.0, cloud computing. In Programmed Visions, Wendy Hui Kyong Chun argues that these cycles result in part from the ways in which new media encapsulates a logic of programmability. New media proliferates “programmed visions,” which seek to shape and predict—even embody—a future based on past data. These programmed visions have also made computers, based on metaphor, metaphors for metaphor itself, for a

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general logic of substitutability. Chun argues that the clarity offered by software as metaphor should make us pause, because software also engenders a profound sense of ignorance: who knows what lurks behind our smiling interfaces, behind the objects we click and manipulate? The combination of what can be seen and not seen, known (knowable) and not known—its separation of interface from algorithm and

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software from hardware—makes it a powerful metaphor for everything we believe is invisible yet generates visible, logical effects, from genetics to the invisible hand of the market, from ideology to culture. Lucien Herr was the director of the library of the Ecole Normale Supérieure, the leading academic institution of France, from 1888 to 1926. In addition to being a library innovator of the time,

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he was an influential socialist who he influenced the thinking of France's emerging socialist leaders, Jean Jaurès and Léon Blum. Historical and contemporary papers on the philosophical issues raised by the Turing Test as a criterion for intelligence. The Turing Test is part of the vocabulary of popular culture—it has appeared in works ranging from the Broadway play "Breaking the Code" to the comic strip

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"Robotman." The writings collected by Stuart Shieber for this book examine the profound philosophical issues surrounding the Turing Test as a criterion for intelligence. Alan Turing's idea, originally expressed in a 1950 paper titled "Computing Machinery and Intelligence" and published in the journal *Mind*, proposed an "indistinguishability test" that compared artifact and person. Following Descartes's

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dictum that it is the ability to speak that distinguishes human from beast, Turing proposed to test whether machine and person were indistinguishable in regard to verbal ability. He was not, as is often assumed, answering the question "Can machines think?" but proposing a more concrete way to ask it. Turing's proposed thought experiment encapsulates the issues that the writings in The Turing Test define and

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discuss. The first section of the book contains writings by philosophical precursors, including Descartes, who first proposed the idea of indistinguishability tests. The second section contains all of Turing's writings on the Turing Test, including not only the Mind paper but also less familiar ephemeral material. The final section opens with responses to Turing's paper published in Mind soon after it first

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appeared. The bulk of this section, however, consists of papers from a broad spectrum of scholars in the field that directly address the issue of the Turing Test as a test for intelligence.

Contributors John R. Searle, Ned Block, Daniel C. Dennett, and Noam Chomsky (in a previously unpublished paper). Each chapter is introduced by background material that can also be read as a self-contained essay on the

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Turing Test

"A biography of Jesse
Hauk Shera, focusing on
his role in defining and
negotiating the
boundaries of library
science and information
science, followed by a
bibliography of his
works"--Provided by
publisher.

Masked by Trust

What Was Artificial
Intelligence?

Heinz Von Foerster

1911-2002

Handbook of Research on
Advanced Computational
Techniques for

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Simulation-Based
Society

Engineering

Computer Search

Algorithms

Political Controversies

and Public Philosophies

Critical Theories,

Reflections, and

Practices

"Extended interview with Joseph
Weizenbaum about the role of
computing in society"--

Melanie Mitchell separates science
fact from science fiction in this
sweeping examination of the current
state of AI and how it is remaking our
world No recent scientific enterprise
has proved as alluring, terrifying, and
filled with extravagant promise and
frustrating setbacks as artificial

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intelligence. The award-winning author Melanie Mitchell, a leading computer scientist, now reveals AI's turbulent history and the recent spate of apparent successes, grand hopes, and emerging fears surrounding it. In *Artificial Intelligence*, Mitchell turns to the most urgent questions concerning AI today: How intelligent—really—are the best AI programs? How do they work? What can they actually do, and when do they fail? How humanlike do we expect them to become, and how soon do we need to worry about them surpassing us? Along the way, she introduces the dominant models of modern AI and machine learning, describing cutting-edge AI programs, their human inventors, and the historical lines of thought underpinning recent achievements. She meets with fellow experts such as Douglas

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Hofstadter, the cognitive scientist and Pulitzer Prize–winning author of the modern classic *Gödel, Escher, Bach*, who explains why he is “terrified” about the future of AI. She explores the profound disconnect between the hype and the actual achievements in AI, providing a clear sense of what the field has accomplished and how much further it has to go. Interweaving stories about the science of AI and the people behind it, *Artificial Intelligence* brims with clear-sighted, captivating, and accessible accounts of the most interesting and provocative modern work in the field, flavored with Mitchell’s humor and personal observations. This frank, lively book is an indispensable guide to understanding today’s AI, its quest for “human-level” intelligence, and its impact on the future for us all.

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The rousing story of the last gasp of human agency and how today's best and brightest minds are endeavoring to put an end to it. It used to be that to diagnose an illness, interpret legal documents, analyze foreign policy, or write a newspaper article you needed a human being with specific skills—and maybe an advanced degree or two. These days, high-level tasks are increasingly being handled by algorithms that can do precise work not only with speed but also with nuance. These “bots” started with human programming and logic, but now their reach extends beyond what their creators ever expected. In this fascinating, frightening book, Christopher Steiner tells the story of how algorithms took over—and shows why the “bot revolution” is about to spill into every aspect of our lives,

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often silently, without our knowledge.

The May 2010 “Flash Crash” exposed Wall Street’s reliance on trading bots to the tune of a 998-point market drop and \$1 trillion in vanished market value. But that was just the beginning.

In Automate This, we meet bots that are driving cars, penning haiku, and writing music mistaken for Bach’s.

They listen in on our customer service calls and figure out what Iran would do in the event of a nuclear standoff.

There are algorithms that can pick out the most cohesive crew of astronauts for a space mission or identify the next Jeremy Lin. Some can even ingest statistics from baseball games and spit out pitch-perfect sports journalism indistinguishable from that produced by humans. The interaction of man and machine can make our lives easier. But what will the world look like

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when algorithms control our hospitals, our roads, our culture, and our national security? What happens to businesses when we automate judgment and eliminate human instinct? And what role will be left for doctors, lawyers, writers, truck drivers, and many others? Who knows—maybe there's a bot learning to do your job this minute. This reference source covers all aspects of the cinema, including film history, production, national cinemas, genre theory and criticism, and cultural contexts.

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