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Machines When Computers
Exceed Human Intelligence

The Age Of Spiritual Machines When Computers Exceed Human Intelligence

Explores universal

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questions about humanity's capacity for living and thriving in the coming age of sentient machines and AI, examining debates from opposing perspectives while discussing emerging

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intellectual diversity and
its potential role in
enabling a positive life.

An authority on artificial
intelligence introduces a
theory that explores the
workings of the human mind

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and the mysteries of
thought

We are all fascinated by
the unknown members of our
respective families. Where
did our family come from
originally? Were earlier

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generations related to
anyone famous? Did any of
our antecedents leave a
serious mark on history?
'Full of historical
anecdotes . . . but this
is much more than a

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history book. [George Dyson] weaves his threads together for a purpose. Using voices of the past and present, he describes a fresh and sometimes startling viewpoint of the

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emerging relationship
between nature and
machines. From vignettes
about Olaf Stapledon,
George Boole, John von
Neumann, and Samuel
Butler, a larger story

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develops in which the twin
processes of intelligence
and evolution are
inseparably intertwined'

Danny Hillis, Wired

Mere Machine to
Transcendent Mind

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The Singularity Is Near
The Sentient Machine
What High Achievers Know
That Brilliant Machines
Never Will
How Nanotechnology,
Robotics, Genetics and

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Artificial Intelligence

Will Transform Our World

The Second Machine Age:

Work, Progress, and

Prosperity in a Time of

Brilliant Technologies

This book examines the current use

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of digital media in religious engagement and how new media can influence and alter faith and spirituality. As technologies are introduced and improved, they continue to raise pressing questions about the impact, both positive and

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negative, that they have on the lives of those that use them. The book also deals with some of the more futuristic and speculative topics related to transhumanism and digitalization. Including an international group of contributors

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from a variety of disciplines, chapters address the intersection of religion and digital media from multiple perspectives. Divided into two sections, the chapters included in the first section of the book present case studies from five major

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*religions: Christianity, Islam,
Buddhism, Hinduism and Judaism
and their engagement with
digitalization. The second section of
the volume explores the moral,
ideological but also ontological
implications of our increasingly*

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digital lives. This book provides a uniquely comprehensive overview of the development of religion and spirituality in the digital age. As such, it will be of keen interest to scholars of Digital Religion, Religion and Media, Religion and Sociology,

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*as well as Religious Studies and
New Media more generally, but also
for every student interested in the
future of religion and spirituality in a
completely digitalized world.*

*A leading scientist and an expert on
human longevity explain how new*

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discoveries in the fields of genomics, biotechnology, and nanotechnology could radically extend the human life expectancy and enhance physical and mental abilities, and introduce a cutting-edge program designed to enhance

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*the immune system and slow the
aging process on a cellular level.
Reprint.*

*Genius inventor Ray Kurzweil's
thoughtful, mind-blowing
examination on how in the 21st
century we will shape technology*

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and be shaped by it.

*Please note: This is a companion
version & not the original book.*

*Sample Book Insights: #1 The birth
of the Universe was not until 10-43
seconds after the birth of the
Universe, when gravity evolved.*

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The first atoms were created about 300,000 years later, with the average temperature now only 3,000 degrees. #2 The passage of time is exponential. It inherently moves in an exponential fashion, either geometrically gaining in

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speed or, as in the history of our Universe, geometrically slowing down. #3 Time is relative to the entities experiencing it. For example, a man who travels at close to the speed of light to a star will return home after only a short

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period of time for him, but for his wife it will take forty years. #4 The second law of thermodynamics, which states that disorder increases in a closed system, implies that the natural emergence of intelligence is impossible. However, the order of

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*life takes place amid great chaos,
and the existence of life-forms does
not appreciably affect the measure
of entropy in the larger system.*

Idea Man

*Intelligent Machines and Human
Values*

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The Singularity Is Nearer

*Testing and Contesting Trance and
other Media Techniques*

Reimagining Work in the Age of AI

*How We Will Live, Work and Think
in the New Age of Intelligent*

Machines

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Are humans just complex biochemical machines, mere physical parts of a causally closed materialist universe? Are we approaching the so-called "Singularity" when human consciousness can (and will) be

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downloaded into computers? Or is there more to the human person--something that might be known as soul or spirit? As this book makes clear, the answers to these questions have profound implications to topics such as

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heroism, creativity, ecology, and the possibility of reason and science. In exploring this important topic, Dickerson engages the ideas of some well-known twentieth- and twenty-first-century espousers of physicalism, including philosopher

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Daniel Dennett (Consciousness Explained), biologist Richard Dawkins (The God Delusion), futurist-engineer Raymond Kurzweil (The Age of Spiritual Machines), psychologist B. F. Skinner (Beyond Freedom and Dignity), and

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mathematician-philosopher Bertrand Russell (Why I Am Not a Christian). Through a careful reading of their works, Dickerson not only provides a five-fold critique of physicalism, but also offers a Christian alternative in the form of "integrative dualism,"

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which affirms the existence of both a physical and spiritual reality without diminishing the goodness or importance of either, and acknowledges that humans are spiritual as well as bodily persons. A pair of technology experts

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describe how humans will have to keep pace with machines in order to become prosperous in the future and identify strategies and policies for business and individuals to use to combine digital processing power with human ingenuity.

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Discusses the scientific potential represented by intelligent machines and their social implications.

It's easy to imagine a nightmare scenario in which computers simply take over most of the tasks that people now get paid to do. The

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unavoidable question—will millions of people lose out, unable to best the machine?—is increasingly dominating business, education, economics, and policy. The bestselling author of *Talent Is Overrated* explains how the skills

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and economy values are changing in historic ways and offers a guide to what's next for all workers.

Mastering technical skills that have historically been in demand no longer differentiates us as it used to. Instead, our greatest advantage lies

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in our deepest, most essentially human abilities—empathy, creativity, social sensitivity, storytelling, humor, relationship building, and expressing ourselves with greater power than logic can ever achieve. These high-value skills

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create tremendous competitive advantage—more devoted customers, stronger cultures, breakthrough ideas, and more effective teams. And while many of us regard these abilities as innate traits, it turns out they can all be

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developed. As Colvin shows, they're already being developed in a range of farsighted organizations, including the Cleveland Clinic, the U.S. Army, and Stanford Business School.

Spiritualities, ethics, and implications of human enhancement

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and artificial intelligence

Humans Are Underrated

Religion in the Age of Digitalization

Ray Kurzweil Vs. the Critics of

Strong AI

When Computers Exceed Human
Intelligence

Read PDF The Age Of Spiritual Machines When Computers Exceed Human Intelligence Inventor's Hall of Fame

The noted inventor and futurist's successor to his landmark book *The Singularity Is Near* explores how technology will refashion the human race in

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the decades to come Since it was first published in 2005, Ray Kurzweil's The Singularity Is Near and its vision of the future have been influential in spawning a worldwide movement with

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millions of followers, hundreds of books, major films (Her, Lucy, Ex Machina), and thousands of articles. During the succeeding decade many of Kurzweil's predictions about

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technological advancements have been borne out, and their viability has become familiar to the public through such now commonplace concepts as AI, intelligent machines, and

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bioengineering. In this entirely new book Ray Kurzweil brings a fresh perspective to advances in the singularity--assessing the progress of many of his predictions and examining

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the novel advancements that, in the near future, will bring a revolution in knowledge and an expansion of human potential. Among the topics he discusses are rebuilding the world, atom

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by atom with devices like nanobots; radical life extension beyond the current age limit of 120; reinventing intelligence by expanding biological capacity with nonbiological

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intelligence in the cloud; how life is improving with declines in areas such as poverty and violence; and the growth of technologies such as renewable energy and 3-D printing, which can

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be applied to everything from clothes to building materials to growing human organs. He also considers the potential perils of biotechnology, nanotechnology, and

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artificial intelligence,
including such topics of
current controversy as how
AI will impact unemployment
and the safety of
autonomous cars, and After
Life technology, which will

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reanimate people who have passed away through a combination of data and DNA.

The bold futurist and bestselling author of *The Singularity is Nearer*

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explores the limitless potential of reverse-engineering the human brain. Ray Kurzweil is arguably today's most influential—and often controversial—futurist. In *How to Create a Mind*,

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Kurzweil presents a provocative exploration of the most important project in human-machine civilization—reverse engineering the brain to understand precisely how it

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works and using that knowledge to create even more intelligent machines. Kurzweil discusses how the brain functions, how the mind emerges from the brain, and the implications of

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vastly increasing the powers of our intelligence in addressing the world's problems. He thoughtfully examines emotional and moral intelligence and the origins of consciousness and

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envisions the radical possibilities of our merging with the intelligent technology we are creating. Certain to be one of the most widely discussed and debated science books of the

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year, How to Create a Mind
is sure to take its place
alongside Kurzweil's previous
classics which include
Fantastic Voyage: Live Long
Enough to Live Forever and
The Age of Spiritual

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“The most interesting book
ever written about Google”
(The Washington Post)
delivers the inside story
behind the most successful
and admired technology

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company of our time, now updated with a new Afterword. Google is arguably the most important company in the world today, with such pervasive influence that its name is a

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verb. The company founded by two Stanford graduate students—Larry Page and Sergey Brin—has become a tech giant known the world over. Since starting with its search engine, Google has

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moved into mobile phones, computer operating systems, power utilities, self-driving cars, all while remaining the most powerful company in the advertising business. Granted unprecedented

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access to the company, Levy disclosed that the key to Google's success in all these businesses lay in its engineering mindset and adoption of certain internet values such as speed,

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openness, experimentation, and risk-taking. Levy discloses details behind Google's relationship with China, including how Brin disagreed with his colleagues on the China strategy—and

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why its social networking initiative failed; the first time Google tried chasing a successful competitor. He examines Google's rocky relationship with government regulators, particularly in the

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EU, and how it has responded when employees left the company for smaller, nimbler start-ups. In the Plex is the "most authoritative...and in many ways the most entertaining"

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(James Gleick, The New York Book Review) account of Google to date and offers "an instructive primer on how the minds behind the world's most influential internet company function"

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(Richard Waters, The Wall Street Journal).

What a great way to teach children the importance of people in our history who contributed to the "world of communication" as we know

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it today! This creative and funny children's musical teaches more than music. Using an awards ceremony as a base story line, the "Fathers of Communication" are recognized for their

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contributions to the
technology that makes our
world turn today.

Society Of Mind

Automate This

Our Molecular Future

Nine Steps to Living Well

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Machines When Computers
Exceed Human Intelligence
Forever

The Mind and the Machine
The Coming Age of Artificial
Intelligence

A playful, profound book that is not only a testament to one man's efforts to be deemed more human than a computer, but

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also a rollicking exploration of what it means to be human in the first place.

□Terrific. ... Art and science meet an engaged mind and the friction produces real fire.□ □The New Yorker Each year, the AI community convenes to administer the famous (and famously controversial) Turing test, pitting sophisticated software

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programs against humans to determine if a computer can "think." The machine that most often fools the judges wins the Most Human Computer Award. But there is also a prize, strange and intriguing, for the "Most Human Human." Brian Christian—a young poet with degrees in computer science and philosophy—was chosen to

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participate in a recent competition. This
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

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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

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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, 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

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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

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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

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easier. But what will the world look like 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

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there's a bot learning to do your job this minute.

How do we begin to cope with loss that cannot be resolved? The COVID-19 pandemic has left many of us haunted by feelings of anxiety, despair, and even anger. In this book, pioneering therapist Pauline Boss identifies these vague

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feelings of distress as caused by ambiguous loss, losses that remain unclear and hard to pin down, and thus have no closure. Collectively the world is grieving as the pandemic continues to change our everyday lives. With a loss of trust in the world as a safe place, a loss of certainty about health care, education, employment,

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lingering anxieties plague many of us, even as parts of the world are opening back up again. Yet after so much loss, our search must be for a sense of meaning, and not something as elusive and impossible as "closure." This book provides many strategies for coping: encouraging us to increase our tolerance of ambiguity and

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acknowledging our resilience as we express a normal grief, and still look to the future with hope and possibility.

By taking a religiously and spiritually literature approach, this volume gets the heart of several emerging ethical issues crucial to both human identity and personhood beyond the human as

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technology advances in the areas of human enhancement and artificial intelligence (AI). Several significant questions are addressed by the contributors, such as: How far should we go in improving our biological selves? How long should we aspire to live? What are fair and just human enhancements? When will AIs

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become people? What does AI spirituality consist of? Can AIs do more than project humour and emotions? What are the religious undertones of these high technology quests for better AI and improved human existence? Established and emerging voices explore these questions, and more, in *Spiritualities*,

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ethics, and implications of human enhancement and artificial intelligence.

This volume will be of interest to university students and researchers absorbed by issues surrounding spiritualities, human enhancement, and artificial intelligence; while also providing points for reflection for the wider public as

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these topics become increasingly
important to our common future.

What It Means to Be Human and Why It
Matters

Are We Spiritual Machines?

Digital Soul

How Google Thinks, Works, and Shapes
Our Lives

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The Most Human Human

Futurists are certain that humanlike AI is on the horizon, but in fact engineers have no idea how to program human reasoning. AI reasons from statistical correlations across data sets, while common sense is based heavily on conjecture. Erik Larson argues that hyping existing methods will

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only hold us back from developing truly humanlike AI.

From the former president of MIT, the story of the next technology revolution, and how it will change our lives. A century ago, discoveries in physics came together with engineering to produce an array of astonishing new technologies: radios,

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telephones, televisions, aircraft, radar, nuclear power, computers, the Internet, and a host of still-evolving digital tools.

These technologies so radically reshaped our world that we can no longer conceive of life without them. Today, the world ' s population is projected to rise to well over 9.5 billion by 2050, and we are currently

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faced with the consequences of producing the energy that fuels, heats, and cools us. With temperatures and sea levels rising, and large portions of the globe plagued with drought, famine, and drug-resistant diseases, we need new technologies to tackle these problems. But we are on the cusp of a new convergence, argues world-

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renowned neuroscientist Susan Hockfield, with discoveries in biology coming together with engineering to produce another array of almost inconceivable technologies—next-generation products that have the potential to be every bit as paradigm shifting as the twentieth century ' s digital wonders. The Age of

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Living Machines describes some of the most exciting new developments and the scientists and engineers who helped create them. Virus-built batteries. Protein-based water filters. Cancer-detecting nanoparticles. Mind-reading bionic limbs. Computer-engineered crops. Together they highlight the promise of the

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technology revolution of the twenty-first century to overcome some of the greatest humanitarian, medical, and environmental challenges of our time.

In this compelling book, Hans Moravec predicts that machines will attain human levels of intelligence by the year 2040, and that by 2050, they will surpass us. But even

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though Moravec predicts the end of the domination by human beings, his is not a bleak vision. Far from railing against a future in which machines rule the world, Moravec embraces it, taking the startling view that intelligent robots will actually be our evolutionary heirs. "Intelligent machines, which will grow from us, learn

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our skills, and share our goals and values, can be viewed as children of our minds." And since they are our children, we will want them to outdistance us. In fact, in a bid for immortality, many of our descendants will choose to transform into "ex humans," as they upload themselves into advanced computers. This

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provocative new book, the highly anticipated follow-up to his bestselling volume *Mind Children*, charts the trajectory of robotics in breathtaking detail. A must read for artificial intelligence, technology, and computer enthusiasts, Moravec's freewheeling but informed speculations present a future far

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different than we ever dared imagine.

The "ultimate thinking machine"
("Forbes")--whose predictions for the
future are startling, provocative, and closer
to fruition than one might think--takes a
serious and surprising look at the future
that reads like great science fiction and
offers a framework for envisioning the 21st

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century. Illustrations & diagrams.

(Technology)

The Age of Intelligent Machines

Live Long Enough to Live Forever

Human + Machine

Fantastic Voyage

The Myth of Closure: Ambiguous Loss in
a Time of Pandemic and Change

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The Myth of Artificial Intelligence

“Startling in scope and bravado.”

—*Janet Maslin, The New York Times*

*“Artfully envisions a breathtakingly
better world.”* —*Los Angeles Times*

“Elaborate, smart and persuasive.”

—*The Boston Globe* *“A pleasure to*

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read.” —The Wall Street Journal

One of CBS News's Best Fall Books

of 2005 • Among St Louis Post-

Dispatch's Best Nonfiction Books of

2005 • One of Amazon.com's Best

Science Books of 2005 A radical and

optimistic view of the future course

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*of human development from the
bestselling author of How to Create
a Mind and The Singularity is
Nearer who Bill Gates calls “the
best person I know at predicting the
future of artificial intelligence” For
over three decades, Ray Kurzweil*

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has been one of the most respected and provocative advocates of the role of technology in our future. In his classic The Age of Spiritual Machines, he argued that computers would soon rival the full range of human intelligence at its best. Now

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*he examines the next step in this
inexorable evolutionary process: the
union of human and machine, in
which the knowledge and skills
embedded in our brains will be
combined with the vastly greater
capacity, speed, and knowledge-*

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sharing ability of our creations.

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Intelligence Penguin*

*Ray Kurzweil is the inventor of the
most innovative and compelling
technology of our era, an*

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international authority on artificial intelligence, and one of our greatest living visionaries. Now he offers a framework for envisioning the twenty-first century--an age in which the marriage of human sensitivity and artificial intelligence

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*fundamentally alters and improves
the way we live. Kurzweil's
prophetic blueprint for the future
takes us through the advances that
inexorably result in computers
exceeding the memory capacity and
computational ability of the human*

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brain by the year 2020 (with human-level capabilities not far behind); in relationships with automated personalities who will be our teachers, companions, and lovers; and in information fed straight into our brains along direct neural

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*pathways. Optimistic and
challenging, thought-provoking and
engaging, The Age of Spiritual
Machines is the ultimate guide on
our road into the next century.
This is a vital book for those who
care about the environment, society*

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*and deploying new technology to
check the destructive power of
humankind.- Allan Thornton,
President, Environmental
Investigation Agency, Washington,
DC., and recipient of the Albert
Schweitzer Medal*

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*shake conventional environmental
wisdom to its roots. ... A landmark
work that should be read by
environmentalists and
businesspersons alike.- Patrick
Moore, cofounder, Greenpeace;
president, GreenspiritIn Our*

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Molecular Future [Mulhall] neatly outlines why our increasing ability to manipulate single atoms and molecules is a concern, and lays out the opportunities and threats this technology presents. And it's surprisingly readable, unlike most of

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*the nanobabble in the science
journals. In the end, as Mulhall
admits, he poses more questions
than he answers. But that's a good
place to start.-New ScientistI just
finished reading Douglas Mulhall's
outstanding new book Our*

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Molecular Future . . . and I highly recommend it. Put this one at the top of your list! . . . In an easy to read format, with very few forays into geek-speak, Mulhall presents his well considered and thoroughly researched theories. Overall, an

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excellent overview for those who wish to understand how disruptive and enabling technologies may save us from ourselves and from mother nature. And along the way you will learn a lot about how nanoscale technologies may enhance our lives,

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provide abundance for all, and greatly raise the standard of living for everyone. . . . Rating: five stars out of five.- Rocky Rawstern, Nanotech Now What Alvin Toffler's Future Shock was to the 20th century, Our Molecular Future will

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be to the 21st century. What will happen to our jobs, health care, and investments when the molecular revolution hits? How might artificial intelligence transform our lives? How can molecular technologies help us cope with

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climate changes, earthquakes, and other extreme natural threats? Our Molecular Future explores some intriguing possibilities that answer these questions and many others. Douglas Mulhall describes the exponential changes that are about

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*to be wrought by the
nanotechnology and robotic
revolutions, which promise to
reduce the scale of computing to the
nanometer—a billionth of a
meter—while increasing computing
power to almost unimaginable*

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levels. The resulting convergence of genetics, robotics, and artificial intelligence may give us hitherto undreamed-of capacities to transform our environment and ourselves. In the not-so-distant future, our world may include

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machines that scour our arteries to prevent heart disease, cars and clothes that change color at our whim, exotic products built in our own desktop factories, and enhancements to our personal financial security despite greatly

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accelerated obsolescence. But while technology is making these fantastic leaps, we may also encounter surprises that throw us into disarray: climate changes, earthquakes, or even a seemingly improbable asteroid collision. These

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extremes are not the nightmare scenarios of sensationalists, Mulhall stresses, nor are many of them human induced. Instead, they may be part of nature's cycle—recurring more often than we've thought possible. The good news is that this

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convergence of catastrophe and technological transformation may work to our advantage. If we're smart, according to Mulhall, we can use molecular machines to protect ourselves from nature's worst extremes, and harness their

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potential benefits to usher in an economic renaissance. This visionary link between future technology and past disasters is a valuable guide for every one of us who wants to be prepared for the twenty-first century. Further Praise

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*for OUR MOLECULAR FUTURE: A
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author of Fingerprints of the Gods In
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Danielle

*The Secret of Human Thought
Revealed*

*Summary of Ray Kurzweil's The Age
of Spiritual Machines*

**By his early thirties, Paul Allen was a
world-famous billionaire-and that was**

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just the beginning. In 2007 and 2008, Time named Paul Allen, the cofounder of Microsoft, one of the hundred most influential people in the world. Since he made his fortune, his impact has been felt in science, technology, business, medicine, sports, music, and philanthropy. His passion, curiosity,

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and intellectual rigor-combined with the resources to launch and support new initiatives-have literally changed the world. In 2009 Allen discovered that he had lymphoma, lending urgency to his desire to share his story for the first time. In this classic memoir, Allen explains how he has solved problems,

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what he's learned from his many endeavors-both the triumphs and the failures-and his compelling vision for the future. He reflects candidly on an extraordinary life. The book also features previously untold stories about everything from the true origins of Microsoft to Allen's role in the dawn of

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**private space travel (with
SpaceShipOne) and in discoveries at the
frontiers of brain science. With honesty,
humor, and insight, Allen tells the story
of a life of ideas made real.**

**In Transcend, famed futurist Ray
Kurzweil and his coauthor Terry
Grossman, MD, present a cutting edge,**

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**accessible program based on the
vanguard in nutrition and science.
They've distilled thousands of scientific
studies to make the case that new
developments in medicine and
technology will allow us to radically
extend our life expectancies and slow
the aging process. Transcend gives you**

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the practical tools you need to live long enough (and remain healthy long enough) to take full advantage of the biotech and nanotech advances that have already begun and will continue to occur at an accelerating pace during the years ahead. To help you remember the nine key components of the program,

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Ray and Terry have arranged them into a mnemonic: Talk with your doctor, Relaxation, Assessment, Nutrition, Supplements, Calorie reduction, Exercise, New technologies, Detoxification. This easy-to-follow program will help you transcend the boundaries of your genetic legacy and

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live long enough to live forever.

By 2020 computers will equal the capacity of the human brain; people will have relationships with virtual personalities. 10 years later machines will have the computing capacity of 1,000 brains; they will learn on their own, create their own literature and

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claim to be conscious. By the end of the century there will no longer be any clear distinction between humans and computers. Most conscious entities will not have a permanent physical presence and life expectancy will no longer be a viable term in relation to intelligent beings. Ray Kurzweil is a leading

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technologist and author of the prize-winning The Age of Intelligent Machines. He is also one of the world's leading inventors and entrepreneurs in the field of artificial intelligence. An introduction to artificial intelligence explores the philosophical and scientific implications of building machines that

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innovate and grow fast. The bottom line is this: Businesses that understand how to harness AI can surge ahead. Those that neglect it will fall behind. Which side are you on? In Human + Machine, Accenture leaders

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Paul R. Daugherty and H.
James (Jim) Wilson show that
the essence of the AI
paradigm shift is the
transformation of all
business processes within an
organization--whether
related to breakthrough

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innovation, everyday customer service, or personal productivity habits. As humans and smart machines collaborate ever more closely, work processes become more fluid and adaptive, enabling companies

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to change them on the fly--or to completely reimagine them. AI is changing all the rules of how companies operate. Based on the authors' experience and research with 1,500 organizations, the book

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reveals how companies are using the new rules of AI to leap ahead on innovation and profitability, as well as what you can do to achieve similar results. It describes six entirely new types of hybrid human +

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machine roles that every company must develop, and it includes a "leader's guide" with the five crucial principles required to become an AI-fueled business. Human + Machine provides the missing and

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much-needed management
playbook for success in our
new age of AI. BOOK PROCEEDS
FOR THE AI GENERATION The
authors' goal in publishing
Human + Machine is to help
executives, workers,
students and others navigate

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the changes that AI is making to business and the economy. They believe AI will bring innovations that truly improve the way the world works and lives. However, AI will cause disruption, and many people

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will need education,
training and support to
prepare for the newly
created jobs. To support
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and retraining programs
focused on developing fusion
skills for the age of
artificial intelligence.

This volume addresses
controversies connected to
the testing of the
capacities and potentials of

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mediums. Today we commonly associate the term "medium" with the technical communication between transmitters and receivers. Yet this term likewise applies to those who cooperate with agencies that

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exceed the presumed domain
of the material world.

Insofar as one presumes a
division between distinctly
opposed categories of
religion and the secular,
technical media tend to be
associated with the secular

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and human (trance) mediums tend to be associated with religion after 1900. This volume concerns the ways in which the term medium still marks an overlapping of – and thus problematizes – the aforementioned division

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between religion and the secular, the personal and the technological. The term medium carries with it a seed of doubt that is itself inseparable from investment in the medium's power: insofar as they communicate

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with an "other" realm, mediums offer the hope and promise of new possibilities and improved efficiency, and thus of a better life; yet they have simultaneously been under suspicion of altering (or even inventing)

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the messages they
communicate. It is due to
this combination of promise
and suspicion that
"mediumism" has tended to
evoke scientific, religious,
and moral controversies.
Thus, we can speak of a

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"mediumistic trial" – that is, a process in which a medium is put to the test concerning its potentials and trustworthiness. Around 1800, experts were asked if a modern secular institution would be capable of

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inspiring, domesticating or excluding trance mediumship. This question has stayed with us ever since, and the answers have remained inconclusive. That is why the past and present of mediumship may be asked to

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elucidate each other.

A strikingly original
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mean to be authentically
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place ruled by forces beyond our understanding. The rise of science and Descartes's division of mind from world made materialism our ruling paradigm, in the process asking whether our own consciousness—i.e.,

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souls—might be illusions.

Now the inexorable rise of technology, with artificial intelligences that surpass our comprehension and control, and the spread of digital metaphors for self-understanding, the core

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questions of
existence—identity,
knowledge, the very nature
and purpose of life
itself—urgently require
rethinking. Meghan O'Gieblyn
tackles this challenge with
philosophical rigor,

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intellectual reach,
essayistic verve, refreshing
originality, and an ironic
sense of contradiction. She
draws deeply and sometimes
humorously from her own
personal experience as a
formerly religious believer

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still haunted by questions of faith, and she serves as the best possible guide to navigating the territory we are all entering.

What Artificial Intelligence
Teaches Us About Being Alive
The Age of Living Machines:

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How Biology Will Build the
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When We Will Live, Work and
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