

File Type PDF The  
Technological  
Singularity The  
Mit Press  
Essential  
Knowledge Series  
The Technol  
ogical  
Singularity  
The Mit  
Press  
Essential  
Knowledge  
Series

File Type PDF The  
Technological  
Singularity The

A music  
researcher's  
quest to  
discover other  
musical  
species. Even  
those of us who  
can't play a  
musical  
instrument or  
lack a sense of  
rhythm can  
perceive and

File Type PDF The  
Technological  
Singularity The  
enjoy music.

Mit Press  
Essential  
Knowledge Series

Research shows  
that all humans  
possess the  
trait of  
musicality. We  
are a musical  
species—but are  
we the only  
musical  
species? Is our  
musical  
predisposition

File Type PDF The  
Technological  
Singularity The  
unique, like  
Mit Press  
our linguistic  
Essential  
ability? In The  
Knowledge Series  
Evolving Animal  
Orchestra,  
Henkjan Honing  
embarks upon a  
quest to  
discover if  
humans share  
the trait of  
musicality with  
other animals.

File Type PDF The  
Technological

Singularity The  
Charles Darwin  
Mit Press  
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Knowledge Series

believed that  
musicality was  
a capacity of  
all animals,  
human and  
nonhuman, with  
a clear  
biological  
basis. Taking  
this as his  
starting point,  
Honing—a music

File Type PDF The  
Technological  
Singularity The  
cognition resea  
rcher-visits a  
series of  
biological  
research  
centers to  
observe the  
ways that  
animals respond  
to music. He  
has studied  
scientists'  
accounts of

Singularity The  
Mit Press  
Essential  
Knowledge Series

Snowball, the  
cockatoo who  
could dance to  
a musical beat,  
and of Ronan,  
the sea lion,  
who was trained  
to move her  
head to a beat.  
Now Honing will  
be able to make  
his own  
observations.

File Type PDF The  
Technological

Singularity The  
Honing tests a  
Mit Press  
rhesus monkey  
Essential  
for beat  
Knowledge Series  
perception via  
an EEG;  
performs a  
listening  
experiment with  
zebra finches;  
considers why  
birds sing, and  
if they intend  
their songs to



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Technological  
Singularity The

be musical;  
Mit Press  
Essential  
Knowledge Series  
explains why  
many animals  
have perfect  
pitch; and  
watches marine  
mammals respond  
to sounds. He  
reports on the  
unforeseen  
twists and  
turns, doubts,  
and oversights

File Type PDF The  
Technological  
Singularity The  
that are a part  
of any  
scientific  
research—and  
which point to  
as many  
questions as  
answers. But,  
as he shows us,  
science is  
closing in on  
the biological  
and

File Type PDF The  
Technological  
Singularity The  
evolutionary  
Mit Press  
source of our  
Essential  
musicality.

What artificial  
intelligence  
can tell us  
about the mind  
and intelligent  
behavior. What  
can artificial  
intelligence  
teach us about  
the mind? If

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Technological

Singularity The  
Mit Press  
Essential  
Knowledge Series

AI's underlying  
concept is that  
thinking is a  
computational  
process, then  
how can  
computation  
illuminate  
thinking? It's  
a timely  
question. AI is  
all the rage,  
and the

File Type PDF The  
Technological  
Singularity The  
buzziest AI  
Mit Press  
buzz surrounds  
Essential  
adaptive  
Knowledge Series  
machine  
learning:  
computer  
systems that  
learn  
intelligent  
behavior from  
massive amounts  
of data. This  
is what powers

File Type PDF The  
Technological  
Singularity The  
a driverless  
Mit Press  
car, for  
Essential  
example. In  
Knowledge Series  
this book,  
Hector Levesque  
shifts the  
conversation to  
“good old  
fashioned  
artificial  
intelligence,”  
which is based  
not on heaps of

File Type PDF The  
Technological  
Singularity The  
data but on  
Mit Press  
understanding  
Essential  
commonsense  
intelligence. Series

This kind of  
artificial  
intelligence is  
equipped to  
handle  
situations that  
depart from  
previous  
patterns—as we

File Type PDF The  
Technological  
Singularity The

do in real  
life, when, for  
example, we  
encounter a

washed-out  
bridge or when  
the barista  
informs us  
there's no more  
soy milk.

Levesque  
considers the  
role of



File Type PDF The  
Technological  
Singularity The  
language in  
Mit Press  
learning. He  
Essential  
argues that a  
Knowledge Series  
computer  
program that  
passes the  
famous Turing  
Test could be a  
mindless  
zombie, and he  
proposes  
another way to  
test for intell

File Type PDF The  
Technological  
Singularity The  
igence—the

Winograd Schema  
Test, developed  
by Levesque and  
his colleagues.

“If our goal is  
to understand  
intelligent  
behavior, we  
had better  
understand the  
difference  
between making

File Type PDF The  
Technological

Singularity The  
it and faking

Mit Press  
it," he

Essential  
observes. He  
identifies a

Knowledge Series  
possible

mechanism

behind common

sense and the

capacity to

call on

background

knowledge: the

ability to

File Type PDF The  
Technological  
Singularity The  
represent  
Mit Press  
objects of  
Essential  
thought  
Knowledge Series  
symbolically.

As AI migrates  
more and more  
into everyday  
life, we should  
worry if  
systems without  
common sense  
are making  
decisions where

File Type PDF The  
Technological  
Singularity The  
common sense is  
needed.

Why a new  
approach is  
needed in the  
quest for  
general  
artificial  
intelligence.  
Since the  
inception of  
artificial  
intelligence,

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Technological  
Singularity The  
Mit Press  
Essential  
Knowledge Series

we have been  
warned about  
the imminent  
arrival of  
computational  
systems that  
can replicate  
human thought  
processes.

Before we know  
it, computers  
will become so  
intelligent

File Type PDF The  
Technological  
Singularity The  
that humans  
Mit Press  
will be lucky  
Essential  
to kept as  
Knowledge Series  
pets. And yet,  
although  
artificial  
intelligence  
has become  
increasingly so  
phisticated—with  
h such  
achievements as  
driverless cars

File Type PDF The  
Technological

Singularity The  
and humanless c  
Mit Press  
hess-playing-co  
Essential  
computer science  
Knowledge Series  
has not yet

created general  
artificial  
intelligence.

In Algorithms  
Are Not Enough,  
Herbert

Roitblat  
explains how  
artificial



File Type PDF The  
Technological  
Singularity The  
general  
Mit Press  
intelligence  
Essential  
may be possible  
Knowledge Series  
and why a  
robopocalypse  
is neither  
imminent, nor  
likely.  
Existing  
artificial  
intelligence,  
Roitblat shows,  
has been

File Type PDF The  
Technological  
Singularity The  
limited to  
Mit Press  
solving path  
Essential  
problems, in  
Knowledge Series  
which the  
entire problem  
consists of  
navigating a  
path of  
choices—finding  
specific  
solutions to  
well-structured  
problems. Human

File Type PDF The  
Technological  
Singularity The  
problem-  
Mit Press  
Essential  
Knowledge Series  
solving, on the  
other hand,  
includes  
problems that  
consist of ill-  
structured  
situations,  
including the  
design of  
problem-solving  
paths  
themselves.

File Type PDF The  
Technological  
Singularity The

These are  
insight  
problems, and  
insight is an  
essential part  
of intelligence  
that has not  
been addressed  
by computer  
science.

Roitblat draws  
on cognitive  
science,

File Type PDF The  
Technological  
Singularity The  
including  
Mit Press  
psychology,  
Essential  
philosophy, and  
Knowledge Series  
history, to  
identify the  
essential  
features of  
intelligence  
needed to  
achieve general  
artificial  
intelligence.

**Roitblat**

*Page 29/290*

File Type PDF The  
Technological  
Singularity The  
describes  
Mit Press  
current  
Essential  
computational  
Knowledge Series  
approaches to  
intelligence,  
including the  
Turing Test,  
machine  
learning, and  
neural  
networks. He  
identifies  
building blocks

File Type PDF The  
Technological  
Singularity The  
of natural  
Mit Press  
intelligence,  
Essential  
including  
Knowledge Series  
perception,  
analogy,  
ambiguity,  
common sense,  
and creativity.  
General  
intelligence  
can create new  
representations  
to solve new

File Type PDF The  
Technological  
Singularity The  
problems, but  
Mit Press  
current  
Essential  
computational  
Knowledge Series  
intelligence  
cannot. The  
human brain,  
like the  
computer, uses  
algorithms; but  
general  
intelligence,  
he argues, is  
more than



File Type PDF The  
Technological  
Singularity The  
algorithmic  
Mit Press  
processes.

Essential  
Knowledge Series  
"Startling in  
scope and  
bravado."

-Janet Maslin,  
The New York  
Times "Artfully  
envisions a  
breathhtakingly  
better world."

-Los Angeles  
Times

File Type PDF The  
Technological  
Singularity The  
Mit Press  
Essential  
Knowledge Series

**“Elaborate,  
smart and  
persuasive.”**

**—The Boston  
Globe “A  
pleasure to  
read.” —The  
Wall Street  
Journal One of  
CBS News’s Best  
Fall Books of  
2005 • Among St  
Louis Post—**

File Type PDF The  
Technological  
Singularity The  
Dispatch's Best  
Mit Press  
Nonfiction  
Essential  
Books of 2005 •  
Knowledge Series  
One of  
Amazon.com's  
Best Science  
Books of 2005 A  
radical and  
optimistic view  
of the future  
course of human  
development  
from the

File Type PDF The  
Technological  
Singularity The  
bestselling  
Mit Press  
author of How  
Essential  
to Create a  
Knowledge Series  
Mind and The  
Singularity is  
Nearer who Bill  
Gates calls  
“the best  
person I know  
at predicting  
the future of  
artificial  
intelligence”

File Type PDF The  
Technological

Singularity The  
For over three  
Mit Press  
decades, Ray  
Essential  
Kurzweil has  
Knowledge Series  
been one of the  
most respected  
and provocative  
advocates of  
the role of  
technology in  
our future. In  
his classic The  
Age of  
Spiritual

File Type PDF The  
Technological  
Singularity The  
Machines, he  
Mit Press  
Essential  
Knowledge Series  
argued that  
computers would  
soon rival the  
full range of  
human  
intelligence at  
its best. Now  
he examines the  
next step in  
this inexorable  
evolutionary  
process: the

File Type PDF The  
Technological  
Singularity The  
union of human  
Mit Press  
and machine, in  
Essential  
which the  
Knowledge Series  
knowledge and  
skills embedded  
in our brains  
will be  
combined with  
the vastly  
greater  
capacity,  
speed, and know  
ledge-sharing

File Type PDF The  
Technological

Singularity The  
ability of our  
Mit Press  
creations.

Essential  
Singularity  
Knowledge Series  
Hypotheses: A

Scientific and  
Philosophical  
Assessment

offers  
authoritative,  
jargon-free  
essays and  
critical  
commentaries on



File Type PDF The  
Technological  
Singularity The  
accelerating  
Mit Press  
technological  
Essential  
progress and  
Knowledge Series  
the notion of  
technological  
singularity. It  
focuses on  
conjectures  
about the  
intelligence  
explosion,  
transhumanism,  
and whole brain

File Type PDF The  
Technological  
Singularity The  
emulation.

Mit Press  
Essential  
Knowledge Series

Recent years  
have seen a  
plethora of  
forecasts about  
the profound,  
disruptive  
impact that is  
likely to  
result from  
further  
progress in  
these areas.

File Type PDF The  
Technological  
Singularity The

Many

commentators

however doubt

the scientific

rigor of these

forecasts,

rejecting them

as speculative

and unfounded.

We therefore

invited

prominent

computer

File Type PDF The  
Technological  
Singularity The

scientists,  
physicists,  
philosophers,  
biologists,

economists and  
other thinkers  
to assess the  
singularity  
hypotheses.

Their  
contributions  
go beyond  
speculation,

File Type PDF The  
Technological

Singularity The  
providing deep  
insights into  
the main issues  
and a balanced  
picture of the  
debate.

The Neocortex  
Deep Learning  
Algorithms Are  
Not Enough  
How to Keep  
Technology from  
Slipping Beyond

File Type PDF The  
Technological  
Singularity The  
Our Control  
Mit Press  
AI Ethics  
Essential  
Creating  
General Knowledge Series

Artificial  
Intelligence  
The Evolving  
Animal

Orchestra

"This book tries to  
assess Galileo's  
work in its  
historical

File Type PDF The  
Technological  
Singularity The  
singularity. It is  
Mit Press  
constructed  
Economial  
around a precise  
Knowledge Series  
question: How did  
Galileo create the  
modern science of  
motion? Starting  
from this question,  
I shall go on to  
determine as  
accurately as I can  
what concepts and  
methods helped  
classical

File Type PDF The  
Technological

Singularity The  
mechanics to take  
shape." [Preface].

An exploration of  
how design might  
be led by  
marginalized  
communities,  
dismantle  
structural  
inequality, and  
advance collective  
liberation and  
ecological survival.

What is the



File Type PDF The  
Technological  
Singularity The  
relationship  
between design,  
power, and social  
justice? "Design  
justice" is an  
approach to design  
that is led by  
marginalized  
communities and  
that aims explicitly  
to challenge,  
rather than  
reproduce,  
structural

File Type PDF The  
Technological

Singularity The  
inequalities. It has  
emerged from a  
growing

Essential  
Knowledge Series  
community of  
designers in

various fields who  
work closely with  
social movements  
and community-  
based

organizations  
around the world.

This book explores  
the theory and

File Type PDF The  
Technological

Singularity The  
practice of design  
justice,

demonstrates how  
universalist design  
principles and  
practices erase  
certain groups of p  
eople—specifically,  
those who are  
intersectionally  
disadvantaged or  
multiply burdened  
under the matrix of  
domination (white

File Type PDF The  
Technological  
Singularity The  
supremacist  
heteropatriarchy,  
ableism,  
capitalism, and  
settler  
colonialism)—and  
invites readers to  
“build a better  
world, a world  
where many  
worlds fit; linked  
worlds of collective  
liberation and  
ecological

File Type PDF The  
Technological  
Singularity The  
sustainability.”

Along the way, the  
book documents a  
multitude of real-  
world community-  
led design  
practices, each  
grounded in a  
particular social  
movement. Design  
Justice goes  
beyond recent calls  
for design for  
good, user-

File Type PDF The  
Technological  
Singularity The  
centered design,  
Mit Press  
and employment  
Essential Series  
diversity in the  
Knowledge Series  
technology and  
design professions;  
it connects design  
to larger struggles  
for collective  
liberation and  
ecological survival.  
In the first-ever  
novel about a  
cyborg, a machine-  
enhanced man

File Type PDF The  
Technological

Singularity The  
from a multiverse  
Mit Press  
of the far future  
visits 1920s

England. In 1920s  
England, a strange  
being crashes a  
village cricket  
game. After some  
glitchy, jerky  
attempts to  
communicate, this  
creature reveals  
that he is a  
machine-enhanced

File Type PDF The  
Technological  
Singularity The  
human from a  
multiverse  
thousands of years  
in the future. The  
mechanism  
implanted in his  
skull has  
malfunctioned,  
sending him  
tumbling through  
time onto the  
green grass of the  
cricket field.

Apparently in the



File Type PDF The  
Technological

Singularity The  
future, at the

behest of fed-up

women, all men

will be controlled

by an embedded

“clockwork,”

camouflaged with

hats and wigs.

Published in 1923,

The Clockwork

Man—the first

cyborg novel—tells

the story of this

odd time traveler’s

File Type PDF The

Technological

Singularity The

visit. Spending  
time with two

village couples

about to embark

upon married life,

the Clockwork

Man warns that

because men of the

twentieth century

are so violent,

sexist, and selfish,

in the not-too-

distant future they

will be banned

File Type PDF The  
Technological  
Singularity The  
from physical  
Mit Press  
Essential  
Knowledge Series  
world—what we'd  
now call the  
Singularity—in  
which their every  
need is met, but  
love is absent. Will  
the Clockwork  
Man's tale lead his  
new friends to  
reconsider

File Type PDF The  
Technological  
Singularity The  
technology, gender  
roles, sex, and free  
will?

Overshadowed in  
its own time by  
Karel Čapek's  
sensational 1923  
play R.U.R., about  
a robot uprising,  
The Clockwork  
Man is overdue for  
rediscovery.

Annalee Newitz is  
the author of Four

File Type PDF The  
Technological  
Singularity The  
Lost Cities (2021),  
the novels The  
Future of Another  
Timeline (2019)  
and Autonomous  
(2017), which won  
the Lambda  
Award, and the  
novel The  
Terraformers  
(forthcoming). As a  
science journalist,  
they are a  
contributing

# File Type PDF The Technological

Singularity: The  
opinion writer for  
the New York  
Times, and have a  
column in New  
Scientist. They are  
also the co-host of  
the Hugo Award-  
winning podcast  
Our Opinions Are  
Correct.

Previously, they  
were the founder  
of io9, and served  
as the editor-in-

File Type PDF The  
Technological

Singularity The  
chief of Gizmodo.

Mit Press  
Provocative,

hopeful essays

imagine a future

that is not reduced  
to algorithms.

How to make  
liberal

democracies more  
inclusive and the

digital economy  
more equitable: a

guide for the  
coming Fourth

File Type PDF The  
Technological  
Singularity The  
Industrial  
Mit Press  
Revolution. Around  
Essential  
the world, liberal  
Knowledge Series  
democracies are in  
crisis. Citizens  
have lost faith in  
their government;  
right-wing  
nationalist  
movements frame  
the political  
debate. At the  
same time,  
economic



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Technological

Singularity The

inequality is  
increasing

dramatically;

digital Knowledge Series

technologies have

created a new

class of super-rich

entrepreneurs.

Automation

threatens to

transform the free

economy into a

zero-sum game in

which capital wins

File Type PDF The  
Technological  
Singularity The  
and labor loses.  
Mit Press  
But is this digital  
Essential  
dystopia  
Knowledge Series  
inevitable? In  
Cyber Republic,  
George Zarkadakis  
presents an  
alternative,  
outlining a plan for  
using technology  
to make liberal  
democracies more  
inclusive and the  
digital economy

File Type PDF The

Technological

Singularity The

more equitable.

Cyber Republic is

no less than a

guide for the

coming Fourth

Industrial

Revolution.

Zarkadakis, an

expert on

technology and

management,

explains how

artificial

intelligence,

File Type PDF The  
Technological  
Singularity The  
together with  
Mit Press  
intelligent  
robotics,  
Essential  
sophisticated  
Knowledge Series  
sensors,  
communication  
networks, and big  
data, will  
fundamentally  
reshape the global  
economy; a new  
"intelligent  
machine age" will  
force us to adopt

File Type PDF The  
Technological  
Singularity The  
new forms of  
Mit Press  
economic and  
Essential  
political  
Knowledge Series  
organization. He  
envisions a future  
liberal democracy  
in which intelligent  
machines facilitate  
citizen assemblies,  
helping to extend  
citizen rights, and  
blockchains and  
cryptoeconomics  
enable new forms

File Type PDF The  
Technological  
Singularity The  
of democratic  
Mit Press  
governance and  
Essential  
business  
collaboration. Series

Moreover, the  
same technologies  
can be applied to  
scientific research  
and technological  
innovation. We  
need not fear  
automation,  
Zarkadakis argues;  
in a post-work

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Technological

Singularity The  
future, intelligent  
machines can  
collaborate with  
humans to achieve  
the human goals of  
inclusivity and  
equality.

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Essential  
Knowledge Series  
The Natural  
Philosophy of  
Galileo  
How Smart  
Machines Think  
Solving the Frame  
Problem

File Type PDF The  
Technological  
Singularity The  
Robot-Proof  
Mit Press  
Superintelligence  
Essential  
The Age of  
Knowledge Series  
Spiritual Machines  
Cognition and  
Consciousness in  
the Space of  
Possible Minds  
A concise  
introduction to  
crowdsourcing  
that goes beyond  
social media  
buzzwords to



# File Type PDF The Technological

Singularity, The  
explain what  
crowdsourcing

really is and

how it works.

Ever since the  
term

“crowdsourcing”

was coined in  
2006 by Wired

writer Jeff

Howe, group

activities

ranging from the  
creation of the

# File Type PDF The Technological

Singularity: The  
Oxford English  
Dictionary to

the choosing of  
new colors for  
Knowledge Series

M&Ms have been  
labeled with  
this most buzz-  
generating of  
media buzzwords.

In this  
accessible but  
authoritative  
account,  
grounded in the

File Type PDF The  
Technological  
Singularity The  
empirical  
literature,

Daren Brabham

explains what  
Knowledge Series

crowdsourcing

is, what it is

not, and how it

works.

Crowdsourcing,

Brabham tells

us, is an

online,

distributed

problem solving

File Type PDF The  
Technological  
Singularity The

and production  
model that

leverages the

collective

intelligence of

online

communities for

specific

purposes set

forth by a

crowdsourcing or

ganization—corpo

rate,

government, or

File Type PDF The  
Technological  
Singularity The  
volunteer.

Uniquely, it  
combines a  
bottom-up, open,  
creative process  
with top-down  
organizational  
goals.

Crowdsourcing is  
not open source  
production,  
which lacks the  
top-down  
component; it is

File Type PDF The  
Technological  
Singularity The  
not a market  
research survey  
that offers  
participants a  
short list of  
choices; and it  
is qualitatively  
different from  
predigital open  
innovation and  
collaborative  
production  
processes, which  
lacked the

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Singularity The

speed, reach,  
rich capability,

and lowered

barriers to  
Knowledge Series

entry enabled by  
the Internet.

Brabham

describes the

intellectual

roots of the

idea of

crowdsourcing in

such concepts as

collective

File Type PDF The  
Technological  
Singularity The  
intelligence, The  
Mit Press  
crowds, and  
Essential  
Knowledge Series  
distributed  
computing. He  
surveys the  
major issues in  
crowdsourcing,  
including crowd  
motivation, the  
misconception of  
the amateur  
participant,  
crowdfunding,



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Technological  
Singularity The  
and the danger  
of "crowdsplaita  
tion" of  
volunteer labor,  
citing real-  
world examples  
from Threadless,  
InnoCentive, and  
other  
organizations.  
And he considers  
the future of  
crowdsourcing in  
both theory and

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practice,  
describing its  
possible roles  
in journalism,  
governance,  
national  
security, and  
science and  
health.

Ray Kurzweil is  
the inventor of  
the most  
innovative and  
compelling

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Technological  
Singularity The  
technology of  
our era, an  
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

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in which the  
marriage of

human  
sensitivity and  
artificial

intelligence  
fundamentally  
alters and  
improves the way  
we live.

Kurzweil's  
prophetic  
blueprint for  
the future takes

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Technological  
Singularity The  
us through the  
Mit Press advances that  
inexorably  
Knowledge Series result in  
computers  
exceeding the  
memory capacity  
and  
computational  
ability of the  
human brain by  
the year 2020  
(with human-  
level

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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

pathways.

File Type PDF The  
Technological  
Singularity The  
Optimistic and  
Mit Press  
challenging, tho  
ught-provoking  
and engaging,  
Knowledge Series

The Age of  
Spiritual  
Machines is the  
ultimate guide  
on our road into  
the next  
century.

To understand  
the mind and its  
place in Nature

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Singularity The  
is one of the  
great

intellectual  
challenges of Series

our time, a  
challenge that  
is both

scientific and  
philosophical.

How does  
cognition

influence an  
animal's

behaviour? What



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are its neural  
underpinnings?

How is the inner

life of a human

being

constituted?

What are the

neural

underpinnings of

the conscious

condition?

Embodiment and

the Inner Life

approaches each

File Type PDF The  
Technological  
Singularity The  
of these  
Mit Press  
questions from a  
Scientific  
standpoint. But  
Knowledge Series  
it contends  
that, before we  
can make  
progress on  
them, we have to  
give up the  
habit of  
thinking  
metaphysically,  
a habit that

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Technological

Singularity The

creates a fog of  
philosophical

confusion. From

this post-  
Knowledge Series

reflective point

of view, the

book argues for

an intimate

relationship

between

cognition,

sensorimotor

embodiment, and

the integrative

File Type PDF The  
Technological  
Singularity The  
character of the  
conscious  
condition.

Drawing on  
insights from  
psychology,  
neuroscience,  
and dynamical  
systems, it  
proposes an  
empirical theory  
of this three-  
way relationship  
whose

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principles, not  
being tied to

the  
contingencies of  
biology or

physics, are  
applicable to  
the whole space  
of possible

minds in which  
humans and other  
animals are  
included.

Embodiment and

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Technological  
Singularity The

the Inner Life

is one of very  
few books that

provides a  
Knowledge Series

properly joined-

up theory of

consciousness,

and will be

essential

reading for all

psychologists,

philosophers,

and

neuroscientists

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Technological  
Singularity The  
with an interest  
Mit Press  
in the enduring  
Essential  
puzzle of  
Knowledge Series  
consciousness.

"The co-author  
of Moral  
Machines  
explores  
accountability  
challenges  
related to a  
world shaped by  
such  
technological

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innovations as  
combat drones,

3-D printers and

synthetic

organisms to

consider how

people of the

near future can

be protected,

"--Novelist.

Algorithms will

soon know more

about us than we

know ourselves



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Mit Press  
Where should  
machine

automation end?

Is it acceptable  
to have a

digital  
assistant

arrange your  
calendar, but

not to have a  
robot spouse?

Are companion  
robots

acceptable for

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seniors in need  
of comfort, but

not okay for

toddlers exposed  
to emotional

software that

could influence

their behavior?

Is it desirable

to live a life

within the

virtual reality

of Facebook's

Oculus Rift, but

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Singularity The

not if your

thoughts are

sold to

advertisers who

manipulate your

purchases? We've

entered an era

where a myriad

of

personalization

algorithms

influence our

every decision,

and the lines

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Singularity The  
between human  
Mit Press,  
assistance,  
automation, and  
Extinction Series  
extinction have  
blurred. We need  
to create  
ethical  
standards for  
the Artificial  
Intelligence  
usurping our  
lives, and allow  
individuals to  
control their

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Technological  
Singularity The  
identity based  
Mit Press  
on their values.

Otherwise, we  
sacrifice our  
Knowledge Series  
humanity for  
productivity  
versus purpose  
and for profits  
versus people.

Featuring  
pragmatic  
solutions  
drawing on  
economics,

File Type PDF The  
Technological  
Singularity The  
emerging  
MIT Press  
technologies,  
and positive  
psychology  
Frontiers  
Knowledge Series  
Heartificial  
Intelligence  
provides the  
first values-  
driven approach  
to algorithmic  
living--a  
definitive  
roadmap to help  
humanity embrace

# File Type PDF The Technological

Singularity The  
the present and  
positively

define their

future. Each  
Knowledge Series

chapter opens  
with a fictional  
vignette,

helping readers  
imagine how they  
would respond to  
various

Artificial  
Intelligence

scenarios while

# File Type PDF The Technological

Singularity. The  
demonstrating

Mit Press  
the need to

codify their

values, as the  
Knowledge Series

algorithms

dominating

society today

are already

doing. Funny,

poignant, and

accessible, this

book paints a

vivid portrait

of how our lives



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might look in  
either a

dystopia of

robotic and Knowledge Series

corporate

dominance, or a

utopia where

humans use

technology to

enhance our

natural

abilities to

evolve into a

long-lived, supe

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r-intelligent,  
and altruistic

species.

From Babies to

Robots

Reckoning and

Judgment

The Promise of

Artificial

Intelligence

Pay Attention

The Clockwork

Man

The Human Use Of

File Type PDF The  
Technological  
Singularity The  
Human Beings  
In Search of  
What Makes Us  
Musical

Knowledge Series  
*A day in the  
inner and outer  
lives of a  
college  
professor,  
blogger,  
divorced  
father,  
thinker, and*

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Essential  
Knowledge Series

yearner. What  
would it feel  
like to wake up  
inside the head  
of someone who  
writes about  
science for a  
living? John  
Horgan,  
acclaimed  
author of the  
bestseller *The  
End of Science*,

File Type PDF The  
Technological

Singularity The

answers that  
question in his  
genre-bending  
new book *Pay*

*Attention*, a st  
ream-of-

consciousness  
account of a

day in the life  
of his alter

ego, Eamon

Toole--a

blogger,

File Type PDF The  
Technological  
Singularity The

college

professor, and

divorced

father. This

work of fact-

based fiction,

or "faction,"

follows Toole

as he wakes up

in his rented

apartment in

upstate New

York, meditates

File Type PDF The  
Technological

Singularity The  
with the mantra  
"Duh," commutes  
via train and  
subway to an  
engineering  
school in New  
Jersey, teaches  
a William James  
essay on  
consciousness  
to freshmen,  
squabbles about  
Thomas Kuhn

File Type PDF The  
Technological  
Singularity The  
with colleagues  
Mit Press  
over lunch,  
Essential  
takes a ferry  
Knowledge Series  
to Manhattan  
and spends the  
evening with  
his bossy,  
Tarot-reading  
girlfriend,  
Emily, on whom  
he plans to  
spring a big  
question.



Singularity The  
Mit Press  
Essential  
Knowledge Series

*Throughout the  
day, Toole  
struggles to be  
rational while  
buffeted by  
fears and  
yearnings.*

*Thoughts of sex  
and death keep  
intruding on  
his ruminations  
over quantum  
spookiness, the*

File Type PDF The  
Technological  
Singularity The  
neural code,  
Mit Press  
the  
Essential  
and free will.  
Knowledge Series  
Pay Attention  
is a profane,  
profound  
meditation on  
the  
entanglements  
of our inner  
and outer  
worlds and the

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Technological  
Singularity The  
*elusiveness of  
truth.*

*The first  
English  
translation of  
the book that  
established  
Paolo Virno as  
one of the most  
influential  
Italian  
thinkers of his  
generation.*

File Type PDF The  
Technological

Singularity The  
With the 1986  
Mit Press  
publication of  
Essential  
this book in  
Knowledge Series  
Italy, Paolo  
Virno

established  
himself as one  
of the most  
influential  
Italian  
thinkers of his  
generation.

Astonishingly,

File Type PDF The  
Technological  
Singularity The  
this crucial  
Mit Press  
Essential  
Knowledge Series  
work has never  
before been  
published in an  
English  
translation.  
This MIT Press  
edition,  
translated by  
Italian  
philosopher and  
Insubordination  
s series editor

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Technological

Singularity The  
Lorenzo Chiesa,  
Mit Press  
is its first En  
Essential  
glish-language  
Knowledge Series  
version. Virno  
here engages,  
in an  
innovative and  
iconoclastic  
way, with some  
classical  
issues of  
philosophy  
involving

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Technological  
Singularity The  
experience,  
singularity,  
and the  
relation

between ethics  
and language,  
while also  
offering a  
profoundly  
transformative  
political  
perspective  
that revolves

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Technological  
Singularity The  
around the  
Mit Press  
Marxian notion  
Essential  
of the "general  
Knowledge Series  
intellect."

Virno

reconsiders

Walter

Benjamin's idea

of a "loss of

the aura"

(brought on,

Benjamin

argued, by



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Technological  
Singularity The  
technical repro  
ducibility),  
Mit Press  
Essential  
Knowledge Series  
and postulates  
instead the  
existence of a  
new experience  
of uniqueness  
that, although  
deprived of  
every  
metaphysical  
aura, resides  
in the very

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Singularity The  
process of late-  
capitalist  
serial  
reproduction.

Writing after  
the defeat of  
contemporary  
leftist  
revolutionary  
movements in  
the West, Virno  
argues for the  
possibility of

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Singularity The  
a "good life"

Mit Press  
Essential  
Knowledge Series  
originating  
immanently from  
existential and  
political

crises. Taking  
speculative  
detours through  
the thought of  
philosophers  
ranging from  
Aquinas and  
Berkeley to

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Heidegger and  
Wittgenstein,  
Essential  
Knowledge Series  
with a specific  
focus on Kant  
and Hegel,  
Virno shows how  
a renewed  
reflection on  
basic  
theoretical  
problems helps  
us to better  
grasp what is

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Technological  
Singularity The  
*happening now.*  
Mit Press  
This edition  
Essential  
Knowledge Series  
features a  
preface written  
by Virno in  
2011.

"Moral Machines  
is a fine  
introduction to  
the emerging  
field of robot  
ethics. There  
is much here

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*that will  
interest  
ethicists,  
philosophers,  
cognitive  
scientists, and  
roboticists."*

*---Peter  
Danielson,  
Notre Dame  
Philosophical  
Reviews --  
The*

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Singularity The  
MIT Press  
Essential  
Press

Knowledge Series  
A guide to  
information as  
the  
transformative  
tool of modern  
business. While  
we have been  
preoccupied  
with the latest  
i-gadget from

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Singularity, The  
Apple and with  
Mit Press  
Google's  
Essential  
ongoing  
Knowledge Series  
expansion, we  
may have missed  
something: the  
fundamental  
transformation  
of whole firms  
and industries  
into giant info  
rmation-  
processing



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Singularity The  
*machines.*

*Today, more  
than eighty  
percent of  
workers collect  
and analyze  
information  
(often in  
digital form)  
in the course  
of doing their  
jobs. This book  
offers a guide*

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to the role of  
Mit Press  
Essential  
information in  
modern

business, Series  
mapping the use  
of information  
within work  
processes and  
tracing flows  
of information  
across supply-  
chain  
management,

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Technological  
Singularity The  
product  
development,  
customer  
relations, and  
sales. The  
emphasis is on  
information  
itself, not on  
information  
technology.  
Information,  
overshadowed  
for a while by

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Technological

Singularity The  
the glamour and  
Mit Press  
novelty of IT,  
Essential  
is the

Knowledge Series  
fundamental  
component of  
the modern  
corporation. In  
Information and  
the Modern  
Corporation,  
longtime IBM  
manager and  
consultant

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Singularity The  
James Cortada  
Mit Press  
clarifies the  
Essential  
differences  
among data, Series

facts,  
information,  
and knowledge  
and describes  
how the art of  
analytics has  
all but  
eliminated  
decision making

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*based on gut  
feeling,*

*replacing it  
with fact-based*

*decisions. He*

*describes the*

*working style*

*of "road*

*warriors,"*

*whose offices*

*are anywhere*

*their laptops*

*and cell phones*

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*are and whose  
deep knowledge  
of a given  
topic becomes  
their medium of  
exchange.*

*Information is  
the core of the  
modern  
enterprise, and  
the use of  
information  
defines the*

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Technological

Singularity The  
activities of a  
firm. This  
essential guide  
shows managers  
and employees  
better ways to  
leverage  
information—by  
design and not  
by accident.

Design Justice  
Our

Mathematical



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Universe  
Mit Press  
The Digital  
Essential  
Mind  
Crowdsourcing  
Sex, Death, and  
Science  
Higher  
Education in  
the Age of  
Artificial  
Intelligence  
How to Create a  
Mind

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From the founding director of the MIT Center for Collective Intelligence comes a fascinating look at the remarkable capacity for intelligence exhibited by groups of people and computers working together. If you're

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like most people, you probably believe that humans are the most intelligent animals on our planet. But there's another kind of entity that can be far smarter: groups of people. In this groundbreaking book, Thomas Malone, the

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founding director of

the MIT Center for

Collective

Intelligence, shows

how groups of

people working

together in

superminds -- like

hierarchies, markets,

democracies, and

communities -- have

been responsible for

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almost all human  
achievements in  
business,

government, science,

and beyond. And

these collectively

intelligent human

groups are about to

get much smarter.

Using dozens of

striking examples

and case studies,

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Knowledge Series  
Malone shows how  
computers can help  
create more  
intelligent

superminds simply  
by connecting  
humans to one  
another in a variety  
of rich, new ways.  
And although it will  
probably happen  
more gradually than

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many people expect,  
artificially  
intelligent computers  
will amplify the  
power of these  
superminds by doing  
increasingly  
complex kinds of  
thinking. Together,  
these changes will  
have far-reaching  
implications for

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everything from the  
way we buy  
groceries and plan  
business strategies  
to how we respond  
to climate change,  
and even for  
democracy itself. By  
understanding how  
these collectively  
intelligent groups  
work, we can learn



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how to harness their  
genius to achieve  
our human goals.

Drawing on cutting-  
edge science and  
insights from a  
remarkable range of  
disciplines,

Superminds

articulates a bold --  
and utterly

fascinating -- picture

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of the future that will  
change the ways you  
work and live, both  
with other people  
and with computers.

This volume contains  
a selection of  
authoritative essays  
exploring the central  
questions raised by  
the conjectured  
technological

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singularity. In

informed yet jargon-

free contributions

written by active

research scientists,

philosophers and

sociologists, it goes

beyond

philosophical

discussion to provide

a detailed account of

the risks that the

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singularity poses to human society and, perhaps most usefully, the possible actions that society and technologists can take to manage the journey to any singularity in a way that ensures a positive rather than a negative impact on

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society. The  
discussions provide  
perspectives that  
cover technological,  
political and  
business issues. The  
aim is to bring  
clarity and rigor to  
the debate in a way  
that will inform and  
stimulate both  
experts and

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interested general  
Mit Press  
readers.

Everything you've  
Essential  
Knowledge Series  
always wanted to  
know about self-  
driving cars, Netflix  
recommendations,  
IBM's Watson, and  
video game-playing  
computer programs.  
The future is here:  
Self-driving cars are

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on the streets, an  
algorithm gives you  
movie and TV  
recommendations,

IBM's Watson  
triumphed on

Jeopardy over puny  
human brains,

computer programs  
can be trained to  
play Atari games.

But how do all these

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things work? In this  
Mit Press  
book, Sean Gerrish  
Essential  
offers an engaging  
Knowledge Series  
and accessible  
overview of the  
breakthroughs in  
artificial intelligence  
and machine  
learning that have  
made today's  
machines so smart.  
Gerrish outlines



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some of the key ideas that enable intelligent machines to perceive and interact with the world. He describes the software architecture that allows self-driving cars to stay on the road and to navigate crowded urban

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Knowledge Series

environments; the million-dollar Netflix competition for a better recommendation engine (which had an unexpected ending); and how programmers trained computers to perform certain behaviors by

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offering them treats,  
as if they were  
training a dog. He  
explains how

artificial neural  
networks enable  
computers to  
perceive the  
world—and to play  
Atari video games  
better than humans.  
He explains

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Watson's famous  
victory on Jeopardy,  
and he looks at how  
computers play

games, describing  
AlphaGo and Deep  
Blue, which beat  
reigning world  
champions at the  
strategy games of  
Go and chess.

Computers have not

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yet mastered

Mit Press

everything, however;

Essential

Gerrish outlines the

Knowledge Series

difficulties in

creating intelligent

agents that can

successfully play

video games like

StarCraft that have

evaded solution—at

least for now.

Gerrish weaves the

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stories behind these

breakthroughs into

the narrative,

introducing readers

to many of the

researchers

involved, and

keeping technical

details to a

minimum. Science

and technology buffs

will find this book an

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Singularity The  
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Essential  
Knowledge Series

essential guide to a  
future in which  
machines can  
outsmart people.

The idea of  
technological  
singularity, and  
what it would mean  
if ordinary human  
intelligence were  
enhanced or  
overtaken by

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artificial intelligence. The idea that human history is approaching a “singularity”—that ordinary humans will someday be overtaken by artificially intelligent machines or cognitively



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enhanced biological  
intelligence, or

both—has moved  
from the realm of

science fiction to

serious debate. Some

singularity theorists

predict that if the

field of artificial

intelligence (AI)

continues to develop

at its current

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dizzying rate, the  
singularity could  
come about in the  
middle of the present  
century. Murray  
Shanahan offers an  
introduction to the  
idea of the  
singularity and  
considers the  
ramifications of such  
a potentially seismic

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event. Shanahan's  
aim is not to make  
predictions but  
rather to investigate  
a range of scenarios.  
Whether we believe  
that singularity is  
near or far, likely or  
impossible,  
apocalypse or  
utopia, the very idea  
raises crucial

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philosophical and  
Mit Press  
pragmatic questions,  
Essential  
forcing us to think  
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seriously about what  
we want as a  
species. Shanahan  
describes  
technological  
advances in AI, both  
biologically inspired  
and engineered from  
scratch. Once

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human-level

Mit Press

AI—theoretically

Essential

possible, but difficult

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to accomplish—has

been achieved, he

explains, the

transition to

superintelligent AI

could be very rapid.

Shanahan considers

what the existence of

superintelligent

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machines could mean for such matters as personhood, responsibility, rights, and identity. Some superhuman AI agents might be created to benefit humankind; some might go rogue. (Is Siri the template, or

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HAL?) The

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singularity presents  
both an existential  
threat to humanity  
and an existential  
opportunity for  
humanity to  
transcend its  
limitations.

Shanahan makes it  
clear that we need to  
imagine both

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possibilities if we  
want to bring about  
the better outcome.

How the future has  
been imagined and  
made, through the  
work of writers,  
artists, inventors,  
and designers. The  
future is like an  
unwritten book. It is  
not something we



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Knowledge Series

see in a crystal ball,  
or can only hope to  
predict, like the  
weather. In this  
volume of the MIT  
Press's Essential  
Knowledge series,  
Nick Montfort  
argues that the  
future is something  
to be made, not  
predicted. Montfort

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Essential  
Knowledge Series

offers what he  
considers essential  
knowledge about the  
future, as seen in the  
work of writers,  
artists, inventors,  
and designers  
(mainly in Western  
culture) who  
developed and  
described the core  
components of the

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Singularity The

futures they  
envisioned.

Montfort's approach  
is not that of

futurology or

scenario planning;

instead, he reports

on the work of

making the

future—the thinkers

who devoted

themselves to writing

# File Type PDF The Technological

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pages in the  
unwritten book.

Douglas Engelbart,  
Alan Kay, and Ted

Nelson didn't predict  
the future of  
computing, for  
instance. They were  
three of the people  
who made it.

Montfort focuses on  
how the development

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of technologies—with  
an emphasis on  
digital

Knowledge Series  
technologies—has

been bound up with  
ideas about the

future. Readers

learn about kitchens

of the future and the

vision behind them;

literary utopias,

from Plato's

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Republic to Edward  
Bellamy's Looking  
Backward and  
Charlotte Perkins  
Gilman's Herland;  
the Futurama exhibit  
at the 1939 New  
York World's Fair;  
and what led up to  
Tim Berners-Lee's  
invention of the  
World Wide Web.

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Montfort describes

the notebook

computer as a

human-centered

alterative to the idea

of the computer as a

room-sized "giant

brain"; speculative

practice in design

and science fiction;

and, throughout, the

best ways to imagine

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and build the future.

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Resisting Reduction

Essential

The Secret of Human

Knowledge Series  
Thought Revealed

Uniqueness without

Aura

The Singularity Is

Near

Embracing Our

Humanity to

Maximize Machines

The Singularity Is



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Singularity The  
Nearer

Mit Press  
A Dangerous Master

Essential  
Knowledge Series  
A comprehensive

overview of an  
interdisciplinary

approach to

robotics that takes  
direct inspiration

from the

developmental and  
learning

phenomena

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observed in  
children's cognitive  
development.

Developmental  
robotics is a  
collaborative and  
interdisciplinary  
approach to  
robotics that is  
directly inspired by  
the developmental  
principles and

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Technological  
Singularity The  
mechanisms  
Mit Press  
observed in  
Essential  
children's cognitive  
Knowledge Series  
development. It  
builds on the idea  
that the robot,  
using a set of  
intrinsic  
developmental  
principles  
regulating the real-  
time interaction of

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its body, brain, and  
Mit Press  
environment, can  
Essential  
autonomously  
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acquire an

increasingly  
complex set of  
sensorimotor and  
mental capabilities.

This volume,  
drawing on  
insights from  
psychology,

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Singularity The  
computer science,  
linguistics,  
neuroscience, and  
robotics, offers the  
first

comprehensive  
overview of a  
rapidly growing  
field. After  
providing some  
essential  
background

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Singularity The  
information on  
robotics and  
developmental  
psychology, the  
book looks in  
detail at how  
developmental  
robotics models  
and experiments  
have attempted to  
realize a range of  
behavioral and

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cognitive  
Mit Press  
capabilities. The  
Essential  
examples in these  
Knowledge Series  
chapters were  
chosen because of  
their direct  
correspondence  
with specific issues  
in child psychology  
research; each  
chapter begins  
with a concise and

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accessible  
overview of  
relevant empirical  
and theoretical

findings in  
developmental  
psychology. The  
chapters cover  
intrinsic motivation  
and curiosity;  
motor  
development,



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examining both  
Mit Press  
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manipulation and  
locomotion;  
perceptual  
development,  
including face  
recognition and  
perception of  
space; social  
learning,  
emphasizing such  
phenomena as

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joint attention and  
Mit Press  
cooperation;  
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language, from  
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phonetic babbling  
to syntactic  
processing; and  
abstract  
knowledge,  
including models  
of number learning  
and reasoning  
strategies. Boxed

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text offers

technical and

methodological

details for both

psychology and

robotics

experiments.

Only a few books

stand as

landmarks in social

and scientific

upheaval. Norbert

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Wiener's classic is  
one in that small  
company. Founder  
of the science of  
cybernetics—the  
study of the  
relationship  
between  
computers and the  
human nervous  
system—Wiener  
was widely

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misunderstood as  
Mit Press  
one who  
Essential  
advocated the  
Knowledge Series  
automation of  
human life. As this  
book reveals, his  
vision was much  
more complex and  
interesting. He  
hoped that  
machines would  
release people

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from relentless and  
repetitive drudgery  
in order to achieve  
more creative

pursuits. At the  
same time he  
realized the  
danger of  
dehumanizing and  
displacement. His  
book examines the  
implications of

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cybernetics for

education, law,

language, science,

technology, as he

anticipates the

enormous

impact—in effect, a

third industrial

revolution—that the

computer has had

on our lives.

The Red Queen's

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race -- The  
Mit Press  
exponential nature  
Essential  
of technology --  
Knowledge Series  
From Maxwell to  
the Internet -- The  
universal machine  
-- The quest for  
intelligent  
machines -- Cells,  
bodies, and brains  
-- Biology meets  
computation --



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How the brain  
works --

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Understanding the  
brain -- Brains,

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minds, and

machines --

Challenges and

promises --

Speculations

Imagining a future

in which humans

fundamentally

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reshape the  
natural world using  
nanotechnology,  
synthetic biology,  
de-extinction, and  
climate

engineering. We  
have all heard that  
there are no longer  
any places left on  
Earth untouched  
by humans. The

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Singularity The  
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Essential  
Knowledge Series

significance of this  
goes beyond  
statistics  
documenting  
melting glaciers  
and shrinking  
species counts. It  
signals a new  
geological epoch.  
In The Synthetic  
Age, Christopher  
Preston argues

File Type PDF The  
Technological

Singularity The  
that what is most  
Mit Press  
startling about this  
Essential  
coming epoch is  
Knowledge Series  
not only how much  
impact humans  
have had but,  
more important,  
how much  
deliberate shaping  
they will start to  
do. Emerging  
technologies

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Singularity The  
promise to give us  
the power to take  
over some of  
Nature's most  
basic operations. It  
is not just that we  
are exiting the  
Holocene and  
entering the  
Anthropocene; it is  
that we are leaving  
behind the time in

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which planetary  
change is just the  
unintended  
consequence of  
unbridled

industrialism. A  
world designed by  
engineers and  
technicians means  
the birth of the  
planet's first  
Synthetic Age.

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Preston describes  
Mit Press  
a range of  
Essential  
technologies that  
Knowledge Series  
will reconfigure

Earth's very  
metabolism:  
nanotechnologies  
that can  
restructure natural  
forms of matter;  
“molecular  
manufacturing”

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that offers  
unlimited  
repurposing;  
synthetic biology's  
potential to build,  
not just read, a  
genome;  
“biological mini-  
machines” that  
can outdesign  
evolution; the  
relocation and



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Singularity The  
resurrection of  
Mit Press  
species; and  
Essential  
climate  
Knowledge Series  
engineering  
attempts to  
manage solar  
radiation by  
synthesizing a  
volcanic haze, cool  
surface  
temperatures by  
increasing the

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Singularity The  
MIT Press  
Essential  
Knowledge Series

brightness of  
clouds, and  
remove carbon  
from the

atmosphere with  
artificial trees that  
capture carbon  
from the breeze.

What does it mean  
when humans shift  
from being  
caretakers of the

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Earth to being  
shapers of it? And  
in whom should we  
trust to decide the

contours of our  
synthetic future?

These questions  
are too important  
to be left to the  
engineers.

How to educate  
the next

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Singularity The  
generation of  
college students to  
invent, to create,  
and to

discover—filling  
needs that even  
the most  
sophisticated robot  
cannot. Driverless  
cars are hitting the  
road, powered by  
artificial

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intelligence.

Robots can climb  
stairs, open doors,  
win Jeopardy,  
analyze stocks,  
work in factories,  
find parking  
spaces, advise  
oncologists. In the  
past, automation  
was considered a  
threat to low-

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Knowledge Series

skilled labor. Now,  
many high-skilled  
functions,  
including

interpreting  
medical images,  
doing legal  
research, and  
analyzing data, are  
within the skill sets  
of machines. How  
can higher

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education prepare  
Mit Press  
Essential  
Knowledge Series  
students for their  
professional lives  
when professions  
themselves are  
disappearing? In  
Robot-Proof,  
Northeastern  
University  
president Joseph  
Aoun proposes a  
way to educate the

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Singularity The  
next generation of  
Mit Press  
college students to  
Essential  
invent, to create,  
Knowledge Series  
and to discover—to  
fill needs in society  
that even the most  
sophisticated  
artificial  
intelligence agent  
cannot. A “robot-  
proof” education,  
Aoun argues, is



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not concerned  
solely with topping  
up students' minds  
with high-octane  
facts. Rather, it  
calibrates them  
with a creative  
mindset and the  
mental elasticity to  
invent, discover, or  
create something  
valuable to

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society—a scientific  
proof, a hip-hop  
recording, a web  
comic, a cure for  
cancer. Aoun lays  
out the framework  
for a new  
discipline,  
humanics, which  
builds on our  
innate strengths  
and prepares

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students to  
Mit Press  
Essential  
Knowledge Series  
compete in a labor  
market in which  
smart machines  
work alongside  
human  
professionals. The  
new literacies of  
Aoun's humanics  
are data literacy,  
technological  
literacy, and

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human literacy.

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Knowledge Series

Students will need  
data literacy to  
manage the flow of  
big data, and  
technological  
literacy to know  
how their  
machines work,  
but human  
literacy—the  
humanities,

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communication,  
Mit Press  
and design—to  
Essential  
function as a  
Knowledge Series  
human being. Life-  
long learning  
opportunities will  
support their ability  
to adapt to  
change. The only  
certainty about the  
future is change.  
Higher education

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Technological

Singularity The  
based on the new  
literacies of  
humanics can  
equip students for  
living and working  
through change.

Reinventing  
Democracy in the  
Age of Intelligent  
Machines  
Common Sense,  
the Turing Test,

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Technological  
Singularity The  
and the Quest for  
Mit Press  
Real AI  
Essential  
Embodiment and  
Knowledge Series  
the Inner Life  
Community-Led  
Practices to Build  
the Worlds We  
Need  
Cyber Republic  
The Synthetic Age  
Managing the  
Journey

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An accessible  
introduction to the  
artificial  
intelligence

technology that  
enables computer  
vision, speech  
recognition,  
machine  
translation, and  
driverless cars.

Deep learning is



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an artificial  
intelligence  
technology that  
enables computer  
vision, speech  
recognition in  
mobile phones,  
machine  
translation, AI  
games, driverless  
cars, and other  
applications.

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When we use

consumer

products from

Google, Microsoft,

Facebook, Apple,

or Baidu, we are

often interacting

with a deep

learning system. In

this volume in the

MIT Press

Essential

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Knowledge series,  
Mit Press  
computer scientist  
Essential  
John Kelleher  
Knowledge Series  
offers an

accessible and  
concise but  
comprehensive  
introduction to the  
fundamental  
technology at the  
heart of the  
artificial

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Singularity The  
intelligence  
Mit Press  
revolution.

Essential  
Knowledge Series  
Kelleher explains  
that deep learning  
enables data-  
driven decisions  
by identifying and  
extracting patterns  
from large  
datasets; its ability  
to learn from  
complex data

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makes deep  
Mit Press  
learning ideally  
Essential  
suited to take  
Knowledge Series  
advantage of the  
rapid growth in  
big data and  
computational  
power. Kelleher  
also explains some  
of the basic  
concepts in deep  
learning, presents

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a history of  
MIT Press  
Essential  
Knowledge Series  
advances in the  
field, and  
discusses the

current state of  
the art. He  
describes the most  
important deep  
learning  
architectures,  
including  
autoencoders,

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Technological  
Singularity The  
recurrent neural  
Mit Press  
networks, and  
Essential  
long short-term  
Knowledge Series  
networks, as well  
as such recent  
developments as  
Generative  
Adversarial  
Networks and  
capsule networks.  
He also provides a  
comprehensive

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Singularity The  
(and  
comprehensible)  
introduction to the  
two fundamental  
algorithms in deep  
learning: gradient  
descent and  
backpropagation.  
Finally, Kelleher  
considers the  
future of deep  
learning—major



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trends, possible  
Mit Press  
developments, and  
Essential  
significant  
Knowledge Series  
challenges.

An accessible  
synthesis of  
ethical issues  
raised by artificial  
intelligence that  
moves beyond  
hype and  
nightmare

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scenarios to

address concrete  
questions.

Artificial

intelligence

powers Google's

search engine,

enables Facebook

to target

advertising, and

allows Alexa and

Siri to do their

jobs. AI is also  
behind self-driving  
cars, predictive  
policing, and

autonomous  
weapons that can  
kill without human  
intervention.

These and other AI  
applications raise  
complex ethical  
issues that are the

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Singularity The  
subject of ongoing  
debate. This  
volume in the MIT  
Press Essential

Knowledge Series  
Knowledge series  
offers an  
accessible  
synthesis of these  
issues. Written by  
a philosopher of  
technology, AI  
Ethics goes

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Technological  
Singularity The  
beyond the usual  
Mit Press  
hype and  
Essential  
nightmare  
Knowledge Series  
scenarios to

address concrete  
questions. Mark  
Coeckelbergh  
describes  
influential AI  
narratives, ranging  
from  
Frankenstein's

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Singularity The  
monster to  
Mit Press  
transhumanism  
Essential  
and the  
Knowledge Series  
technological  
singularity. He  
surveys relevant  
philosophical  
discussions:  
questions about  
the fundamental  
differences  
between humans

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Singularity The  
and machines and  
Mit Press  
debates over the  
Essential  
moral status of AI.  
Knowledge Series  
He explains the  
technology of AI,  
describing  
different  
approaches and  
focusing on  
machine learning  
and data science.  
He offers an

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Singularity, The  
overview of  
Mit Press  
Essential  
Knowledge Series  
important ethical  
issues, including  
privacy concerns,  
responsibility and  
the delegation of  
decision making,  
transparency, and  
bias as it arises at  
all stages of data  
science processes.  
He also considers



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the future of work  
in an AI economy.

Finally, he  
analyzes a range  
of policy proposals  
and discusses  
challenges for  
policymakers. He  
argues for ethical  
practices that  
embed values in  
design, translate

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Singularity The  
MIT Press  
Essential  
Knowledge Series  
democratic values  
into practices and  
include a vision of  
the good life and  
the good society.

In 1969, John  
McCarthy and Pat  
Hayes uncovered a  
problem that has  
haunted the field  
of artificial  
intelligence ever

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Singularity The  
since--the frame  
Mit Press  
Essential  
Knowledge Series  
problem. The  
problem arises  
when logic is used  
to describe the  
effects of actions  
and events. Put  
simply, it is the  
problem of  
representing what  
remains  
unchanged as a

File Type PDF The  
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Singularity The  
result of an action  
Mit Press  
or event. Many  
Essential  
researchers in  
Knowledge Series  
artificial

intelligence  
believe that its  
solution is vital to  
the realization of  
the field's goals.  
Solving the Frame  
Problem presents  
the various

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approaches to the  
frame problem  
that have been  
proposed over the  
years. The author  
presents the  
material  
chronologically--as  
an unfolding story  
rather than as a  
body of theory to  
be learned by rote.

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Singularity The

There are lessons  
to be learned even  
from the dead  
ends researchers  
have pursued, for  
they deepen our  
understanding of  
the issues  
surrounding the  
frame problem. In  
the book's  
concluding

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chapters, the

author offers his

own work on

event calculus,

which he claims

comes very close

to a complete

solution to the

frame problem.

Artificial

Intelligence series

The human brain

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Singularity The

has some  
capabilities that  
the brains of other  
animals lack. It is  
to these distinctive  
capabilities that  
our species owes  
its dominant  
position. Other  
animals have  
stronger muscles  
or sharper claws,



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Singularity The

but we have  
cleverer brains. If  
machine brains  
one day come to  
surpass human  
brains in general  
intelligence, then  
this new  
superintelligence  
could become very  
powerful. As the  
fate of the gorillas

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Singularity The

now depends more  
on us humans  
than on the  
gorillas

themselves, so the  
fate of our species  
then would come  
to depend on the  
actions of the  
machine  
superintelligence.

But we have one

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Knowledge Series  
advantage: we get  
to make the first  
move. Will it be  
possible to

construct a seed  
AI or otherwise to  
engineer initial  
conditions so as to  
make an  
intelligence  
explosion  
survivable? How

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could one achieve  
a controlled  
detonation? To get  
closer to an

answer to this  
question, we must  
make our way  
through a  
fascinating  
landscape of  
topics and  
considerations.

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Read the book and  
learn about  
oracles, genies,  
singletons; about  
boxing methods,  
tripwires, and  
mind crime; about  
humanity's cosmic  
endowment and  
differential  
technological  
development;

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indirect

normativity,

instrumental

convergence,

whole brain

emulation and

technology

couplings;

Malthusian

economics and

dystopian

evolution; artificial

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intelligence, and  
biological  
cognitive  
enhancement, and  
collective  
intelligence.

Max Tegmark  
leads us on an  
astonishing  
journey through  
past, present and  
future, and

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through the  
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physics,  
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astronomy and  
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mathematics that  
are the foundation  
of his work, most  
particularly his  
hypothesis that  
our physical  
reality is a  
mathematical  
structure and his



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theory of the  
ultimate  
multiverse. In a  
dazzling

combination of  
both popular and  
groundbreaking  
science, he not  
only helps us  
grasp his often  
mind-boggling  
theories, but he

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also shares with us  
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some of the often  
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surprising  
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triumphs and  
disappointments  
that have shaped  
his life as a  
scientist.

Fascinating from  
first to last—this is  
a book that has  
already prompted

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the attention and  
admiration of  
some of the most  
prominent

scientists and  
mathematicians.

Life 3.0

The Future

Developmental

Robotics

Teaching Robots

Right from Wrong

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Information and  
the Modern  
Corporation  
Moral Machines

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Hypotheses

*Comparing the human  
brain with so-called  
artificial intelligence,  
the author probes  
past, present, and  
future attempts to*

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*create machine*  
intelligence

*The bold futurist and  
bestselling author of  
The Singularity is  
Nearer explores the  
limitless potential of  
reverse-engineering  
the human brain Ray  
Kurzweil is arguably  
today's most  
influential—and often c  
ontroversial—futurist.*

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*In How to Create a  
Mind, Kurzweil*

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Knowledge Series  
*presents a provocative  
exploration of the  
most important  
project in human-  
machine*

*civilization—reverse  
engineering the brain  
to understand  
precisely how it works  
and using that  
knowledge to create*

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*even more intelligent*

*machines. Kurzweil*

*discusses how the*

*brain functions, how*

*the mind emerges*

*from the brain, and*

*the implications of*

*vastly increasing the*

*powers of our*

*intelligence in*

*addressing the*

*world's problems. He*

*thoughtfully examines*

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*emotional and moral  
intelligence and the  
origins of*

*consciousness and  
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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Singularity The  
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  
Machines.*

*New York Times Best  
Seller How will  
Artificial Intelligence*

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Singularity The

*affect crime, war,  
justice, jobs, society  
and our very sense of  
being human? The  
rise of AI has the  
potential to transform  
our future more than  
any other  
technology—and  
there's nobody better  
qualified or situated to  
explore that future  
than Max Tegmark, an*

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*MIT professor who's  
helped mainstream  
research on how to  
keep AI beneficial.*

*How can we grow our  
prosperity through  
automation without  
leaving people lacking  
income or purpose?  
What career advice  
should we give  
today's kids? How  
can we make future AI*

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*systems more robust,  
so that they do what  
we want without  
crashing,  
malfunctioning or  
getting hacked?  
Should we fear an  
arms race in lethal  
autonomous weapons?  
Will machines  
eventually outsmart us  
at all tasks, replacing  
humans on the job*

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*market and perhaps  
altogether? Will AI  
help life flourish like  
never before or give  
us more power than  
we can handle? What  
sort of future do you  
want? This book  
empowers you to join  
what may be the most  
important  
conversation of our  
time. It doesn't shy*

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*away from the full  
range of viewpoints or  
from the most  
controversial  
issues—from  
superintelligence to  
meaning,  
consciousness and the  
ultimate physical  
limits on life in the  
cosmos.*

*An argument  
that—despite dramatic*

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*advances in the  
field—artificial  
intelligence is  
nowhere near*

*developing systems  
that are genuinely  
intelligent. In this  
provocative book,*

*Brian Cantwell Smith  
argues that artificial  
intelligence is  
nowhere near*

*developing systems*

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*that are genuinely  
intelligent. Second  
wave AI, machine  
learning, even visions  
of third-wave AI: none  
will lead to human-  
level intelligence and  
judgment, which have  
been honed over  
millennia. Recent  
advances in AI may be  
of epochal  
significance, but*



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*human intelligence is  
of a different order  
than even the most  
powerful calculative  
ability enabled by new  
computational  
capacities. Smith calls  
this AI ability  
“reckoning,” and  
argues that it does not  
lead to full human jud  
gment—dispassionate,  
deliberative thought*

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grounded in ethical  
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commitment and  
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responsible action.

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Taking judgment as  
the ultimate goal of  
intelligence, Smith  
examines the history  
of AI from its first-  
wave origins (“good  
old-fashioned AI,” or  
GOF AI) to such  
celebrated second-  
wave approaches as

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*machine learning,  
paying particular  
attention to recent  
advances that have led  
to excitement, anxiety,  
and debate. He  
considers each AI  
technology's  
underlying  
assumptions, the  
conceptions of  
intelligence targeted  
at each stage, and the*

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*successes achieved so far. Smith unpacks the notion of intelligence itself—what sort humans have, and what sort AI aims at. Smith worries that, impressed by AI's reckoning prowess, we will shift our expectations of human intelligence. What we should do, he argues,*

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*is learn to use AI for  
the reckoning tasks at  
which it excels while  
we strengthen our  
commitment to  
judgment, ethics, and  
the world.*

*Experts review the  
latest research on the  
neocortex and  
consider potential  
directions for future  
research. Over the*

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Singularity The

*past decade,  
technological  
advances have  
dramatically  
increased information  
on the structural and  
functional  
organization of the  
brain, especially the  
cerebral cortex. This  
explosion of data has  
radically expanded  
our ability to*

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characterize neural  
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circuits and intervene  
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at increasingly higher  
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resolutions, but it is  
unclear how this has  
informed our  
understanding of  
underlying  
mechanisms and  
processes. In search  
of a conceptual  
framework to guide  
future research,

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leading researchers  
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address in this volume  
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the evolution and  
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ontogenetic

development of  
cortical structures, the  
cortical connectome,  
and functional  
properties of neuronal  
circuits and  
populations. They  
explore what  
constitutes “uniquely



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human” mental

capacities and

whether neural

solutions and

computations can be

shared across species

or repurposed for

potentially uniquely

human capacities.

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*David A. McCormick,*

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B. Schwartz, Terrence*

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*Intelligence*

*When Humans*

*Transcend Biology*

*Cybernetics And*

*Society*

*Convention and*

*Materialism*

*How Science Is*

*Redefining Humanity*

*Heartificial*

*Intelligence*

*A Mathematical*

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*Investigation of the  
Common Sense Law of  
Inertia*

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

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*in 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  
spanning 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*

*bioengineering.*

*In this entirety*

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new book Ray

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Kurzweil brings  
a fresh

Knowledge Series  
perspective to  
advances in the  
singularity--ass  
essing the  
progress of many  
of his  
predictions and  
examining the  
novel

advancements  
that, in the

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*near future,  
will bring a  
revolution in  
knowledge and an  
expansion of  
human potential.  
Among the topics  
he discusses are  
rebuilding the  
world, atom by  
atom with  
devices like  
nanobots;  
radical life*

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*extension beyond  
the current age*

*limit of 120;*

*re inventing*

*intelligence by*

*expanding*

*biological*

*capacity with*

*nonbiological*

*intelligence in*

*the cloud; how*

*life is*

*improving with*

*declines in*

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areas such as

poverty and

violence; and

the growth of

technologies

such as

renewable energy

and 3-D

printing, which

can be applied

to everything

from clothes to

building

materials to

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*growing human*

*organs. He also*

*considers the*

*potential perils*

*of*

*biotechnology,*

*nanotechnology,*

*and artificial*

*intelligence,*

*including such*

*topics of*

*current*

*controversy as*

*how AI will*

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Singularity The  
*impact*

unemployment and  
the safety of

autonomous cars,  
and After Life  
technology,

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

Essay on the  
Origins and



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*Formation of*

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*Classical*

*Mechanics*

My Quest for the

*Ultimate Nature*

*of Reality*

*Superminds*

*The Surprising*

*Power of People*

*and Computers*

*Thinking*

*Together*

*A Scientific and*

*Philosophical*

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Essential  
the Age of  
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Artificial  
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Paths, Dangers,  
Strategies