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Arrival Of The Fittest How Nature Innovates

Invites readers to
change their
perceptions
about illness in
order to

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understand
disease as an
essential
component of the
evolutionary
process, citing
the role of such
malaises as
diabetes, STDs,
and the Avian
Bird Flu in
protecting the
survival of the

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human race.

(Health &
Fitness)

An eye-opening,
mind-bending
exploration of
how mankind is
reshaping its
genetic future,
based on the viral
TED Talk series
“Will Our Kids Be
a Different

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Species?” and
“The Next
Species of
Human.” Are you
willing to
engineer the
DNA of your
unborn children
and grand-
children to be
healthier? Better
looking? More
intelligent? Why

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are rates of
autism, asthma,
and allergies
exploding at an
unprecedented
pace? Why are
humans living
longer and
having far fewer
kids? Futurist
Juan Enriquez
and scientist
Steve Gullans

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conduct a sweeping tour of how humans are changing the course of evolution for all species—sometimes intentionally, sometimes not. For example: • What if life forms are limited only by the bounds of

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our imagination?
Are designer
babies and pets,
de-extinction,
even entirely
newspecies fair
game? • As
humans, animals,
and plants
become ever
more resistant to
disease and
aging, what will

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become the leading causes of death? • Man-machine interfaces may allow humans to live much longer. What will happen when we transfer parts of our “selves” into clones, into stored cells and

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machines?

Though these
harbingers of
change are
deeply unsettling,
the authors argue
we are also in an
epoch of
tremendous
opportunity.
Future humans,
perhaps a more
diverse, resilient,

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gentler, and
intelligent
species, may
become better
caretakers of the
planet—but only
if we make the
right choices
now. Intelligent,
provocative, and
optimistic,
Evolving
Ourselves is the

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ultimate guide to
the next phase of
life on Earth.

Chosen by
Nature magazine
as a Fall 2016
season highlight.

A critique of
selectionism and
the proposal of
an alternate
theory of
emergent

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evolution that is causally sufficient for evolutionary biology. Natural selection is commonly interpreted as the fundamental mechanism of evolution.

Questions about how selection

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theory can claim
to be the all-
sufficient
explanation of
evolution often
go unanswered
by today's neo-
Darwinists,
perhaps for fear
that any criticism
of the
evolutionary
paradigm will

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encourage
creationists and
proponents of
intelligent
design. In
Biological
Emergences,
Robert Reid
argues that
natural selection
is not the cause
of evolution. He
writes that the

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causes of variations, which he refers to as natural experiments, are independent of natural selection; indeed, he suggests, natural selection may get in the way of evolution. Reid proposes an

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alternative theory
to explain how
emergent
novelties are
generated and
under what
conditions they
can overcome the
resistance of
natural selection.
He suggests that
what causes
innovative

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variation causes evolution, and that these phenomena are environmental as well as organismal. After an extended critique of selectionism, Reid constructs an emergence theory of

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evolution, first
examining the
evidence in three
causal arenas of
emergent
evolution: symbio
sis/association,
evolutionary phys
iology/behavior,
and
developmental
evolution. Based
on this evidence

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of causation, he
proposes some
working
hypotheses,
examining
mechanisms and
processes
common to all
three arenas, and
arrives at a
theoretical
framework that
accounts for

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generative mechanisms and emergent qualities. Without selectionism, Reid argues, evolutionary innovation can more easily be integrated into a general thesis. Finally, Reid proposes a

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biological
synthesis of rapid
emergent
evolutionary
phases and the
prolonged,
dynamically
stable, non-
evolutionary
phases imposed
by natural
selection.

We all have our

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off days. Why should Evolution be any different? Maybe Evolution got carried away with an idea that was just a little too crazy—like having the Regal Horned Lizard defend itself by shooting three-foot streams of

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blood from its
eyes. Or maybe

Evolution ran out

of steam (Memo

to Evolution: The

Irrawaddy

Dolphin looks like

a prototype that

should have been

left on the

drawing board).

Or maybe

Evolution was

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feeling cheeky—a
fish with hands?

Joke's on you,
Red Handfish! Or
maybe Evolution
simply goofed up:
How else to
explain the
overgrown teeth
of the babirusas
that curl
backward over
their face? Oops.

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Mara Grunbaum is a very smart, very funny science writer who celebrates the best—or, really, the worst—of Evolution's blunders. Here are more than 100 outlandish mammals,

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reptiles, insects,
fish, birds, and
other creatures
whose very
existence leaves
us shaking our
heads and
muttering WTF?!
Ms. Grunbaum's
especially
brilliant stroke is
to personify
Evolution as a

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well-meaning but
somewhat
oblivious
experimenter
whose
conversations
with a skeptical
narrator are
hilarious. For
almost 4 billion
years, Evolution
has produced a
nonstop parade

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of inflatable
noses, bizarre
genitalia, and
seriously
awkward necks.

What a
comedian!
Evolution by
Natural
Experiment
Biological
Emergences
Survival of the

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Sickest LP
Arrival of the
Fittest
How Nature
Innovates
A Compendium of
Obsolete Objects
Half Past
Midnight
Evolutionary
Developmental
Biology, Volume

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141 focuses on recent research in evolutionary developmental biology, the science studying how changes in development cause the variations that natural selection operate on.

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Several new hypotheses and models are presented in this volume, and these concern how homology may be properly delineated, how neural crest and placode cells emerged and how

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they formed the skull and jaw, and how plasticity and developmental symbiosis enable normal development to be regulated by environmental factors. •New models for homology •New

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hypotheses for the
generation of

chordates •New

models for the

roles of plasticity

and symbionts in

normal

development

A FINALIST FOR

THE PULITZER

PRIZE NAMED A

BEST BOOK OF

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THE YEAR BY
THE NEW YORK
TIMES BOOK
REVIEW,
SMITHSONIAN,
AND WALL
STREET

JOURNAL A major
reimagining of how
evolutionary forces
work, revealing
how mating

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preferences—what Darwin termed "the taste for the beautiful"—create the extraordinary range of ornament in the animal world. In the great halls of science, dogma holds that Darwin's theory of natural selection

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explains every
branch on the tree
of life: which
species thrive,
which wither away
to extinction, and
what features each
evolves. But can
adaptation by
natural selection
really account for
everything we see

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in nature? Yale
University

ornithologist

Richard

Prum—reviving

Darwin's own

views—thinks not.

Deep in tropical

jungles around the

world are birds

with a dizzying

array of

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appears and

Innovates
mating displays:

Club-winged

Manakins who sing

with their wings,

Great Argus

Pheasants who

dazzle prospective

mates with a four-

foot-wide cone of

feathers covered

in golden 3D

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spheres, Red-capped Manakins who moonwalk. In thirty years of fieldwork, Prum has seen numerous display traits that seem disconnected from, if not outright contrary to, selection for

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individual survival.
To explain this, he
dusts off Darwin's
long-neglected
theory of sexual
selection in which
the act of choosing
a mate for purely
aesthetic
reasons—for the
mere pleasure of
it—is an

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independent
engine of
evolutionary
change. Mate
choice can drive
ornamental traits
from the
constraints of
adaptive evolution,
allowing them to
grow ever more
elaborate. It also

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sets the stakes for sexual conflict, in which the sexual autonomy of the female evolves in response to male sexual control.

Most crucially, this framework provides important insights into the evolution of human

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sexuality,
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particularly the
ways in which
female
preferences have
changed male
bodies, and even
maleness itself,
through
evolutionary time.
The Evolution of
Beauty presents a

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unique scientific
vision for how
nature's splendor
contributes to a
more complete
understanding of
evolution and of
ourselves.

What do atoms
have to do with
your life? In Your
Atomic Self,

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scientist Curt
Stager reveals
how they connect
you to some of the
most amazing
things in the
universe. You will
follow your oxygen
atoms through fire
and water and
from forests to
your fingernails.

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Hydrogen atoms
will wriggle into
your hair and
betray where you
live and what you
have been
drinking. The
carbon in your
breath will become
tree trunks, and
the sodium in your
tears will link you

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to long-dead
oceans. The
nitrogen in your
muscles will help
to turn the sky
blue, the
phosphorus in
your bones will
help to turn the
coastal waters of
North Carolina
green, the calcium

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in your teeth will
crush your food
between atoms
that were mined by
mushrooms, and
the iron in your
blood will kill
microbes as it
once killed a star.
You will also
discover that much
of what death must

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inevitably do to
your body is
already happening
among many of
your atoms at this
very moment and
that, nonetheless,
you and everyone
else you know will
always exist
somewhere in the
fabric of the

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universe. You are
not only made of
atoms; you are
atoms, and this
book, in essence,
is an atomic field
guide to yourself.

Arrival of the
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InnovatesCurrent
Lord of the Flies
Randomness in

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Evolution

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The Making of the

Fittest: DNA and

the Ultimate

Forensic Record of

Evolution

Your Atomic Self

The Evolution of

Beauty

A Novel About the

History of

Philosophy

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Universe in
Creation

Life on earth is characterized by three striking phenomena that demand explanation: adaptation—the marvelous fit between organism and environment; diversity—the great variety of organisms;

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and complexity—the enormous intricacy of their internal structure. Natural selection explains adaptation. But what explains diversity and complexity? Daniel W. McShea and Robert N. Brandon argue that there exists in evolution a spontaneous tendency toward

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increased diversity and complexity, one that acts whether natural selection is present or not. They call this tendency a biological law—the Zero-Force Evolutionary Law, or ZFEL. This law unifies the principles and data of biology under a single framework and invites a

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reconceptualization
of the field of the
same sort that
Newton ' s First Law
brought to physics.
Biology ' s First Law
shows how the ZFEL
can be applied to the
study of diversity and
complexity and
examines its wider
implications for
biology. Intended for
evolutionary

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biologists,
paleontologists, and
other scientists
studying complex
systems, and written
in a concise and
engaging format that
speaks to students
and interdisciplinary
practitioners alike,
this book will also
find an appreciative
audience in the
philosophy of science.

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What can a fingernail tell us about the mysteries of creation? In one sense, a nail is merely a hunk of mute matter, yet in another, it's an information superhighway quite literally at our fingertips. Every moment, streams of molecular signals direct our cells to

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move, flatten, swell,
shrink, divide, or die.

Andreas Wagner's
ambitious new book
explores this hidden
web of unimaginably
complex interactions
in every living being.
In the process, he
unveils a host of
paradoxes
underpinning our
understanding of
modern biology,

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contradictions he considers gatekeepers at the frontiers of knowledge. Though we tend to think of concepts in such mutually exclusive pairs as mind-matter, self-other, and nature-nurture, Wagner argues that these opposing ideas are not actually separate. Indeed, they are as

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inextricably
connected as the two
sides of a coin.

Through a tour of
modern biological
marvels, Wagner
illustrates how this
paradoxical tension
has a profound effect
on the way we define
the world around us.
Paradoxical Life is
thus not only a
unique account of

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modern biology. It ultimately serves a radical--and optimistic--outlook for humans and the world we help create. The debut novel by the author of American Housewife. Eating the Cheshire Cat lures us into a world of perfectly planned parties and steep social ladders,

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where traditional rites
of passage take

unpredictable and

horrifying turns as

three girls and their

overbearing mothers

collide. In Tuscaloosa,

Alabama, beauty is as

beauty does, with

axes and knives and

killer smiles. Sarina

Summers and her

mother will stop at

nothing to have it all.

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Nicole Hicks harbors a fierce obsession with Sarina, which repeatedly undermines Mrs. Hicks's ambitious goals. Bitty Jack Carlson, a nice girl from the wrong side of the tracks, is caught in the crossfire but struggles to succeed outside the confines

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of this outrageous yet eerily familiar

Southern community.

It's survival of the fittest. Which girl will come out on top?

Covering everything from summer camp to the University of Alabama's

Homecoming game, this fast-paced and unforgettable novel will keep readers

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guessing until the bitter end.

When a meteorite lands in Surrey, the locals don't know what to make of it. But as Martians emerge and begin killing bystanders, it quickly becomes clear—England is under attack. Armed soldiers converge on the scene to ward off

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the invaders, but
meanwhile, more
Martian cylinders
land on Earth,
bringing
reinforcements. As
war breaks out across
England, the locals
must fight for their
lives, but life on Earth
will never be the
same. This is an
unabridged version of
one of the first

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fictional accounts of extraterrestrial invasion. H. G. Wells's military science fiction novel was first published in book form in 1898, and is considered a classic of English literature. The Invisible Elements That Connect You to Everything Else in the Universe

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What is Life?

The Divinity of Man
and the Spirit of
Invention

Mastering the Lost
Secrets of Strength
and Endurance

Life Itself

Regenesis

How the Great
Became Great

***Arguing
against the***

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*widely held
belief that
technology and
religion are
at war with
each other,
David F.
Noble's
groundbreaking
book reveals
the religious
roots and*

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spirit of
Innovates
Western

*technology. It
links the
technological
enthusiasms of
the present
day with the
ancient and
enduring
Christian
expectation of*

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recovering
Innovates

humankind's
lost divinity.
Covering a
period of a
thousand
years, Noble
traces the
evolution of
the Western
idea of
technological

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development
Innovates

*from the ninth
century, when
the useful
arts became
connected to
the concept of
redemption, up
to the
twentieth,
when humans
began to*

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Innovates

**exercise God-
like knowledge
and powers.**

Noble

**describes how
technological
advance**

**accelerated at
the very point
when it was
invested with
spiritual**

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significance.
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*By examining
the imaginings
of monks,
explorers,
magi,
scientists,
Freemasons,
and engineers,
this
historical
account brings*

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*to light an
other-worldly
inspiration
behind the
apparently
worldly
endeavors by
which we
habitually
define Western
civilization.
Thus we see*

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that Isaac
Innovates

*Newton devoted
his lifetime
to the
interpretation
of prophecy.*

*Joseph
Priestley was
the discoverer
of oxygen and
a founder of
Unitarianism.*

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Freemasons
were early
advocates of i
ndustrializati
on and the
fathers of the
engineering
profession.
Wernher von
Braun saw
spaceflight as
a millenarian

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*new beginning
for humankind.
The narrative
moves into our
own time
through the
technological
enterprises of
the last half
of the
twentieth
century:*

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*nuclear
Innovates
weapons,*

*manned space
exploration,
Artificial
Intelligence,
and genetic
engineering.*

*Here the book
suggests that
the*

convergence of

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technology and religion has outlived its usefulness, that though it once contributed to human well-being, it has now become a threat to our survival.

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*Viewed at the
dawn of the
new
millennium,
the
technological
means upon
which we have
come to rely
for the
preservation
and*

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*enlargement of
our lives*

betray an

increasing

impatience

with life and

a disdainful

disregard for

mortal needs.

David F. Noble

thus contends

that we must

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*collectively
strive to
disabuse
ourselves of
the inherited
religion of
technology and
begin
rigorously to
re-examine our
enchantment
with*

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*unregulated
technological
advance.*

*“Bold and
provocative...
Regenesis
tells of
recent
advances that
may soon yield
endless
supplies of*

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*renewable
energy,
increased
longevity and
the return of
long-extinct
species.”—New
Scientist In
Regenesis,
Harvard
biologist
George Church*

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and science
Innovates
writer Ed

*Regis explore
the possibilit
ies—and
perils—of the
emerging field
of synthetic
biology.*

*Synthetic
biology, in
which living*

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*organisms are
selectively
altered by
modifying
substantial
portions of
their genomes,
allows for the
creation of
entirely new
species of
organisms.*

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These technologies—far from the out-of-control nightmare depicted in science fiction—have the power to improve human and animal health,

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*increase our
intelligence,
enhance our
memory, and
even extend
our life span.
A breathtaking
look at the
potential of
this world-
changing
technology,*

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*Regenesis is
nothing less
than a guide
to the future
of life.*

*The power of
Darwin's
theory of
natural
selection is
beyond doubt,
it explains*

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*how useful
adaptations
are preserved
over
generations.
But
evolution's
biggest
mystery eluded
Darwin: how
those
adaptations*

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*arise in the
first place.*

*Can random
mutations over
a 3.8 billion
years be
solely
responsible
for wings,
eyeballs,
knees, photosy
nthesis, and*

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*the rest of
nature's
creative
marvels? And
by calling
these
mutations
'random', are
we not just
admitting our
own ignorance?
What if we*

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Fittest, How Nature
could now
Innovates

uncover the
wellspring of
all biological
innovation?

Renowned
evolutionary
biologist
Andreas Wagner
presents the
missing piece
in Darwin's

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*theory. Using
cutting-edge
experimental
and*

*computational
technologies,
he has found
that*

*adaptations
are in fact
driven by a
set of laws*

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*that allow
nature to
discover new
molecules and
mechanisms in
a fraction of
the time that
random
variation
would take.
Consider the
Arctic cod, a*

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*fish that
lives in
waters cold
enough to turn
the internal
fluids of most
organisms into
ice crystals.
And yet the
Arctic cod
survives by
producing*

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'natural anti-freeze', proteins that lower the freezing temperature of its body fluids. The invention of those proteins is an archetypal

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*example of
nature's
enormous
powers of
creativity.
Meticulously
researched,
carefully
argued, and
full of
fascinating
examples from*

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*the animal
kingdom,*

*Arrival of the
Fittest offers
up the final
puzzle piece
in the mystery
of life's rich
diversity.*

*A geneticist
discusses the
role of DNA in*

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*the evolution
of life on
Earth,
explaining how
an analysis of
DNA reveals a
complete
record of the
events that
have shaped
each species
and how it*

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Fittest. How Nature
provides
innovates

*evidence of
the validity
of the theory
of evolution.
The Religion
of Technology
Paradoxical
Life
Creative
Evolution
The Drunken*

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Monkey

***Survival of
the Fittest
How Chemistry
Becomes
Biology
Explanation,
Prediction,
and
Confirmation***

*Golding's iconic
1954 novel, now*

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*with a new foreword
by Lois Lowry,
remains one of the
greatest books ever
written for young
adults and an
unforgettable classic
for readers of any
age. This edition
includes a new
Suggestions for
Further Reading by
Jennifer Buehler. At*

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the dawn of the next world war, a plane crashes on an uncharted island, stranding a group of schoolboys. At first, with no adult supervision, their freedom is something to celebrate. This far from civilization they can do anything they

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*want. Anything. But
as order collapses,
as strange howls
echo in the night, as
terror begins its
reign, the hope of
adventure seems as
far removed from
reality as the hope of
being rescued.
What is life? For four
centuries, it has
been believed that*

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*the only possible
scientific approach
to this question
proceeds from the
Cartesian metaphor
-- organism as
machine. Therefore,
organisms are to be
studied and
characterized the
same way
"machines" are; the
same way any*

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*inorganic system is.
Robert Rosen
argues that such a
view is neither
necessary nor
sufficient to answer
the question. He
asserts that life is
not a specialization
of mechanism, but
rather a sweeping
generalization of it.
Above all, Rosen*

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argues that renouncing mechanism does not mean abandoning science. A radical alternative is proposed, drawn equally from experience in biology, physics, and mathematics; an alternative which draws attention to a

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*new class of
complex systems,
which are radically
different from
mechanism.*

*Five tribes. One
leader. A
treacherous journey
across three
continents in search
of a new home.*

*Written in the spirit
of Jean Auel,*

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Survival of the Fittest is an unforgettable saga of hardship and determination, conflict and passion. Chased by a ruthless enemy, Xhosa leads her People on a grueling journey through unknown and dangerous lands

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following a path laid out decades before by her father, to be followed only as a last resort. She is joined by other fleeing tribes from Indonesia, China, South Africa, East Africa, and the Levant, all similarly forced by timeless events to find new

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Fittest: How Nature

lives. As they struggle to overcome treachery, lies, tragedy, secrets, and Nature itself, Xhosa is forced to face the reality that her enemy doesn't want to ruin her People. It wants to ruin her.

The story is set 850,000 years ago,

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*a time in prehistory
when man
populated most of
Eurasia, where
'survival of the fittest'
was not a slogan. It
was a destiny.
Xhosa's People
were from a violent
species, one fully
capable of
addressing the many
hardships that*

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*threatened their lives
except for one:*

*future man, a
smarter version of
themselves, one
destined to
obliterate all those
who came before.*

*The Trees. They
arrived in the night:
wrenching through
the ground,
thundering up into*

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Fittest How Nature

the air, and turning

Adrien's suburban

street into a

shadowy forest.

Shocked by the

sight but determined

to get some

answers, he

ventures out,

passing destroyed

buildings, felled

power lines, and

broken bodies still

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Fittest How Nature
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*wrapped in tattered
bed linens hanging
from branches. It is
soon apparent that
no help is coming
and that these trees,
which seem the
work of centuries
rather than hours,
span far beyond the
town. As far,
perhaps, as the
coast, where across*

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the sea in Ireland, Adrien's wife is away on a business trip and there is no way of knowing whether she is alive or dead. When Adrien meets Hannah, a woman who, unlike him, believes that the coming of the trees may signal renewal

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Fittest, How Nature

*rather than
destruction and Seb,
her technology-
obsessed son, they
persuade him to join
them. Together, they
pack up what
remains of the lives
they once had and
set out on a quest to
find Hannah's
forester brother and
Adrien's wife--and to*

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Fittest How Nature

discover just how deep the forest goes. Their journey through the trees will take them into unimaginable territory: to a place of terrible beauty and violence, of deadly enemies and unexpected allies, to the dark heart of nature and the

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Fittest How Nature
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*darkness--and also
the power--inside
themselves.*

*How Synthetic
Biology Will
Reinvent Nature and
Ourselves
Evolutionary
Developmental
Biology
Sophie's World
Solving Evolution's
Greatest Puzzle*

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*The Voyage of the
Beagle*

Evolving Ourselves

**The Doomsday Clock
gauges the threat of
nuclear war.**

**Currently, the clock is
set at six minutes
before midnight. What
happens after the
hands reach midnight?
Survivalist Leeland**

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Fittest How Nature
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Dawcett finds out when he and his family are plunged into the nightmare of their country returned to a third-world state. No phones. No computers. No television. At first, Leeland thinks basic survival is the answer. Until he crosses the path of the wrong guy... Someone who wants to do more than

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Fittest How Nature
just survive...

This book by A. Ralph Epperson purports to uncover hidden and sinister meanings behind all the symbols found on the Great Seal of the United States, committing America to "A Secret Destiny.

An ethologist shows man to be a gene machine whose world

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Fittest, How Nature
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**is one of savage
competition and deceit**

**One day Sophie comes
home from school to
find two questions in
her mail: "Who are
you?" and "Where
does the world come
from?" Before she
knows it she is
enrolled in a
correspondence course
with a mysterious
philosopher. Thus**

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Fittest How Nature

begins Jostein

**Gaarder's unique
novel, which is not
only a mystery, but
also a complete and
entertaining history of
philosophy.**

**The War of the
Worlds**

**The New World Order
Why We Drink and
Abuse Alcohol**

**The Coming Jobs War
Eating The Cheshire**

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Cat
Natural Born Heroes

Life Finds a Way

We know the universe has a history, but does it also have a story of self-creation to tell? Yes, in Roy R. Gould's account. He offers a compelling narrative of how the universe—with no

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instruction other than its own laws—evolved into billions of galaxies and gave rise to life, including humans who have been trying for millennia to comprehend it. Far from being a random accident, the universe is hard at work, extracting

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order from chaos. Making use of the best current science, Gould turns what many assume to be true about the universe on its head. The cosmos expands inward, not outward. Gravity can drive things apart, not merely together. And the

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universe seems to defy entropy as it becomes more ordered, rather than the other way around. Strangest of all, the universe is exquisitely hospitable to life, despite its being constructed from undistinguished atoms and a few

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unexceptional rules
of behavior.

Universe in Creation
explores whether
the emergence of
life, rather than
being a mere
cosmic afterthought,
may be written into
the most basic laws
of nature. Offering a
fresh take on what
brought the

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world—and us—into being, Gould helps us see the universe as the master of its own creation, not tethered to a singular event but burgeoning as new space and energy continuously stream into existence. It is a very old story, as yet unfinished, with

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plotlines that twist
and churn through
infinite space and
time.

Convergent
evolution occurs on
all levels, from tiny
organic molecules
to entire
ecosystems of
species.

Christopher
McDougall's journey

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begins with a story
of remarkable

athletic prowess: On

the treacherous

mountains of Crete,

a motley band of

World War II

Resistance

fighters—an artist, a

shepherd, and a

poet—abducted a

German

commander from

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the heart of the Axis
occupation. To
understand how,
McDougall retraces
their steps across
the island that
birthed Herakles
and Odysseus, and
discovers ancient
techniques for
endurance,
sustenance, and
natural movement

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that have been preserved in unique communities around the world. His search takes us scrambling over rooftops with a Parkour crew in London, foraging for greens with a ballerina in Brooklyn, tossing heavy pieces of

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driftwood on a
Brazilian beach with
the creator of
MovNat—and,
finally, to our own
backyards. Natural
Born Heroes will
inspire readers to
unleash the
extraordinary
potential of the
human body and
climb, swim, skip,

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throw, and jump
their way to heroic
feats.

This is Charles
Darwin's chronicle
of his five-year
journey, beginning
in 1831, around the
world as a naturalist
on the H.M.S.
Beagle.

A New
Understanding of

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the Big Bang and
the Emergence of
Life

The Tendency for
Diversity and
Complexity to
Increase in
Evolutionary
Systems

WTF, Evolution?!
Limited Forms Most
Beautiful

The Trees

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Meaning, Matter,
and the Power of
Human Choice
Redesigning the
Future of
Humanity--One
Gene at a Time
Definitive leadership
strategy for fixing the
American economy,
drawn from Gallup ' s
unmatched global
polling and written by

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the company 's
chairman. What
everyone in the world
wants is a good job.

“ This is one of the
most important
discoveries Gallup has
ever made, ” says the
company 's
Chairman, Jim
Clifton. In The
Coming Jobs War,
Clifton makes the bold

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assertion that job creation and successful entrepreneurship are the world ' s most pressing issues right now, outpacing runaway government spending, environmental degradation and even the threat of global terrorism. The book is grounded in findings

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from Gallup ' s World Poll, which reveals the implications of the jobs war on everything from economics to foreign policy to nothing less than America ' s moral authority in the world. And it offers a prescription for attacking the jobs issue head-on. Clifton

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argues that the solution to creating good jobs must be found in cities, not in the federal government.

Promoting entrepreneurship and job creation must be the sole mission and purpose of cities ' business leaders, government officials

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and philanthropists.

Clifton says that the next big breakthrough will come from the combination of the forces within big cities, great universities and powerful local leaders. Their combined effect is the most reliable, controllable and predictable solution to America ' s biggest

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problem. Strong leadership teams and a natural order are already in place within cities — in governments and local business and philanthropic entities, with caring leaders working on initiatives to fuel local economic growth and to create good jobs. The feat

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these leaders have to pull off is doubling their entrepreneurial energy by aligning their local forces: local tribal leaders, super mentors and universities. Winning the jobs war will require all hands on deck, and failure is not an option, especially for the United States,

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which has been the global leader in promoting freedom and entrepreneurship. America ' s place in the world is at stake, and there are other countries poised to surpass a sputtering U.S. economy that is currently growing at only 2% annually. The biggest threat?

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China, with a GDP that is increasing at nearly 10% annually — a pace that will make it the world ' s leading and most influential economy within the next 30 years. While the statistics are dire, Clifton remains optimistic about America ' s ability to

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win the jobs war
because America has
been here before.

“ The Greatest
Generation saved
America by beating
the Japanese and
Germans at [World
War II]. The Baby
Boomers saved
America a second
time by beating the
same foes, Japan and

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Germany, in an economic war that determined the leadership of the free world, again, ” he says. The Coming Jobs War offers a clear, brutally honest look at America ’ s biggest problem and a cogent prescription for solving it.

The important role

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that randomness plays
in evolutionary
change John Tyler
Bonner, one of our
most distinguished
and insightful
biologists, here
challenges a central
tenet of evolutionary
biology. In this
concise, elegantly
written book, he
makes the bold and

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provocative claim that some biological diversity may be explained by something other than natural selection. With his customary wit and accessible style, Bonner makes an argument for the underappreciated role that randomness—or chance—plays in

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evolution. Due to the tremendous and enduring influence of Darwin's natural selection, the importance of randomness has been to some extent overshadowed. Bonner shows how the effects of randomness differ for organisms of different sizes, and

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how the smaller an organism is, the more likely it is that morphological differences will be random and selection may not be involved to any degree. He traces the increase in size and complexity of organisms over geological time, and looks at the varying

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significance of randomness at different size levels, from microorganisms to large mammals. Bonner also discusses how sexual cycles vary depending on size and complexity, and how the trend away from randomness in higher forms has even been reversed in some

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social organisms.

Certain to provoke
lively discussion,
Randomness in
Evolution is a book
that may
fundamentally change
our understanding of
evolution and the
history of life.

How the principles of
biological innovation
can help us overcome

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creative challenges in art, business, and science In Life Finds a Way, biologist Andreas Wagner reveals the deep symmetry between innovation in biological evolution and human cultural creativity. Rarely is either a linear climb to perfection--instead,

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"progress" is typically marked by a sequence of peaks, plateaus, and pitfalls. For instance, in Picasso's forty-some iterations of Guernica, we see the same combination of small steps, incessant reshuffling, and large, almost reckless, leaps that characterize the way evolution

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transformed a dinosaur's grasping claw into a condor's soaring wing. By understanding these principles, we can also better realize our own creative potential to find new solutions to adversity. Ultimately, Life Finds a Way offers a new framework for the

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nature of creativity,
enabling us to better
adapt, grow, and
change in art,
business, or
science--that is, in life.

This volume, the
second in the Springer
series Philosophy of
Science in a European
Perspective, contains
selected papers from
the workshops

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organised by the ESF
Research Networking
Programme PSE (The
Philosophy of Science
in a European
Perspective) in 2009.
Five general topics are
addressed: 1. Formal
Methods in the
Philosophy of Science;
2. Philosophy of the
Natural and Life
Sciences; 3.

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Philosophy of the
Cultural and Social
Sciences; 4.

Philosophy of the
Physical Sciences; 5.

History of the
Philosophy of Science.

This volume is
accordingly divided in
five sections, each
section containing
papers coming from
the meetings focussing

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on one of these five themes. However, these sections are not completely independent and detached from each other. For example, an important connecting thread running through a substantial number of papers in this volume is the concept of

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probability:
probability plays a
central role in present-
day discussions in
formal epistemology,
in the philosophy of
the physical sciences,
and in general
methodological
debates---it is central
in discussions
concerning
explanation,

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prediction and confirmation. The volume thus also attempts to represent the intellectual exchange between the various fields in the philosophy of science that was central in the ESF workshops.

A Theory of
Unintelligible Design
A Comprehensive

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Inquiry Into the
Nature, Origin, and
Fabrication of Life
What Evolution
Teaches Us About
Creativity
The Arrival of the
Fittest
Extinct
A Novel
The Selfish Gene
"Wagner"

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**draws on over
fifteen years
of research to
present the
missing piece
in Darwin's
theory. Using
experimental
and
computational
technologies
that were**

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**heretofore
unimagined,
he has found
that
adaptations
are not just
driven by
chance, but by
a set of laws
that allow
nature to
discover new**

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molecules and mechanisms in a fraction of the time that random variation would take"--Amazon.com. Seventy years ago, Erwin Schrödinger posed a

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**profound
question:**

**'What is life,
and how did it
emerge from
non-life?'**

**Scientists
have puzzled
over it ever
since. Addy
Pross uses
insights from**

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**the new field
of systems
chemistry to
show how
chemistry can
become
biology, and
that Darwinian
evolution is
the expression
of a deeper
physical**

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**principle.
Greg Bear's
Nebula
Award-winnin
g novel,
Darwin's
Radio, painted
a chilling
portrait of
humankind on
the threshold
of a radical**

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**leap in
evolution—one
that would
alter our
species
forever. Now
Bear continues
his
provocative
tale of the
human race
confronted by**

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**an uncertain
future, where
“survival of
the fittest”
takes on
astonishing
and
controversial
new
dimensions.
Eleven years
have passed**

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**since SHEVA,
an ancient
retrovirus,
was
discovered in
human DNA—a
retrovirus that
caused
mutations in
the human
genome and
heralded the**

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**arrival of a
new wave of
genetically
enhanced
humans. Now
these changed
children have
reached
adolescence . .
. and face a
world that is
outraged**

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**about their
very
existence. For
these special
youths,
possessed of
remarkable,
advanced
traits that
mark a major
turning point
in human**

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**development,
are also
ticking time
bombs
harboring
hosts of
viruses that
could
exterminate
the “old”
human race.
Fear and**

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**hatred of the
virus children
have made
them a
persecuted
underclass,
quarantined
by the
government in
special
“schools,”
targeted by**

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**federally
sanctioned
bounty
hunters, and
demonized by
hysterical
segments of
the
population.
But pockets of
resistance
have sprung**

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**up among
those opposed
to treating the
children like
dangerous
diseases—and
who fear the
worst if the
government's
draconian
measures are
carried to**

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their extreme.

Scientists

**Kaye Lang and
Mitch Rafelson
are part of this
small but
determined
minority. Once
at the
forefront of
the discovery
and study of**

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**the SHEVA
outbreak, they
now live as
virtual exiles
in the Virginia
suburbs with
their
daughter,
Stella—a
bright,
inquisitive
virus child**

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who is quickly maturing, straining to break free of the protective world her parents have built around her, and eager to seek out others of her kind. But for

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**all their
precautions,
Kaye, Mitch,
and Stella
have not
slipped below
the
government's
radar. The
agencies
fanatically
devoted to**

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**segregating
and
controlling the
new-breed
children
monitor their
every move—w
atching and
waiting for the
opportunity to
strike the next
blow in their**

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Innovates

**escalating war
to preserve
“humankind”
at any cost.
Alcoholism, as
opposed to
the safe
consumption
of alcohol,
remains a
major public
health issue.**

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**In this
accessible
book, Robert
Dudley
presents an
intriguing
evolutionary
interpretation
to explain the
persistence of
alcohol-
related**

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Innovates

**problems.
Providing a
deep-time, inter-
disciplinary
perspective on
today's
patterns of
alcohol
consumption
and abuse,
Dudley traces
the link**

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**between the
fruit-eating
behavior of
arboreal
primates and
the evolution
of the sensory
skills required
to identify ripe
and fermented
fruits that
contain sugar**

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**and low levels
of alcohol. In
addition to
introducing
this new
theory of the
relationship of
humans to
alcohol, the
book
discusses the
supporting**

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**research,
implications of
the
hypothesis,
and the
medical and
social impacts
of alcoholism.
The Drunken
Monkey is
designed for
interested**

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**readers,
scholars, and
students in
comparative
and
evolutionary
biology,
biological
anthropology,
medicine, and
public health.
Convergent**

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**Evolution
Darwin's
Children
Biology's First
Law
How Darwin's
Forgotten
Theory of
Mate Choice
Shapes the
Animal World -
and Us**

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**The Call of the
Wild**

“ Natural selection can preserve innovations, but it cannot create them. Nature ’ s many innovations—some uncannily perfect—call for

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natural principles
that accelerate
life ' s ability to
innovate. ”

Darwin ' s theory
of natural
selection
explains how
useful
adaptations are
preserved over
time. But the

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biggest mystery about evolution eluded him. As genetics pioneer Hugo de Vries put it, “natural selection may explain the survival of the fittest, but it cannot explain the arrival of the

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fittest.” Can
random
mutations over a
mere 3.8 billion
years really be
responsible for
wings, eyeballs,
knees,
camouflage,
lactose digestion,
photosynthesis,
and the rest of

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nature ' s creative

marvels? And if

the answer is no,

what is the

mechanism that

explains

evolution ' s

speed and

efficiency? In

Arrival of the

Fittest,

renowned

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evolutionary
biologist
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Andreas Wagner
draws on over
fifteen years of
research to
present the
missing piece in
Darwin's theory.
Using
experimental and
computational

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technologies that were heretofore unimagined, he has found that adaptations are not just driven by chance, but by a set of laws that allow nature to discover new molecules and mechanisms in a

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fraction of the
time that random
variation would
take. Consider
the Arctic cod, a
fish that lives
and thrives
within six
degrees of the
North Pole, in
waters that
regularly fall

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below 0 degrees.

At that temperature, the internal fluids of most organisms turn into ice crystals. And yet, the arctic cod survives by producing proteins that lower the

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freezing
temperature of
its body fluids,
much like
antifreeze does
for a car ' s
engine coolant.
The invention of
those proteins is
an archetypal
example of
nature ' s

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enormous
powers of
creativity.

Meticulously
researched,
carefully argued,
evocatively
written, and full
of fascinating
examples from
the animal
kingdom, Arrival

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of the Fittest
offers up the
final puzzle piece
in the mystery of
life ' s rich
diversity.

Blending
architecture,
design, and
technology, a
visual tour
through futures

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past via the objects we have replaced, left behind, and forgotten. So-called extinct objects are those that were imagined but were never in use, or that existed but are

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now unused—sup

erseded,

unfashionable, or

simply forgotten.

Extinct gathers

together an

exceptional

range of artists,

curators,

architects,

critics, and

academics,

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Innovates
including Hal
Foster, Barry
Bergdoll, Deyan
Sudjic, Tacita
Dean, Emily Orr,
Richard
Wentworth, and
many more. In
eighty-five
essays,
contributors
nominate

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“ extinct ” objects

and address

them in a series

of short, vivid,

sometimes

personal

accounts,

speaking not

only of obsolete

technologies, but

of other ways of

thinking, making,

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and interacting with the world. Extinct is filled with curious, half-remembered objects, each one evoking a future that never came to pass. It is also a visual treat, full of interest and delight.