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Gravitational Waves characters, real and imagined, as well as events, arcana, and lots of other stuff. The second is the Spoiler-Free Annotations by Page, which allows the reader to look up and contribute allusions and

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According to the theory of relativity, we are constantly bathed in gravitational radiation. When stars explode or collide, a portion of their mass becomes energy that

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Gravitational Waves
disturbs the very fabric of the space-time continuum like ripples in a pond. But proving the existence of these waves has been difficult; the cosmic shudders are so weak that only the most sensitive

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Gravitational Waves instruments can be expected to observe them directly. Fifteen times during the last thirty years scientists have claimed to have detected gravitational waves, but so far none of those claims have survived

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the scrutiny of the
scientific community.

Gravity's Shadow chronicles
the forty-year effort to
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Gravitational wave detection involves recording the collisions, explosions, and trembling of stars and black holes by evaluating the smallest changes ever measured. Because gravitational waves are so

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faint, their detection will come not in an exuberant moment of discovery but through a chain of inference; for forty years, scientists have debated whether there is anything to detect and whether it has

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yet been detected.

Sociologist Harry Collins has been tracking the progress of this research since 1972, interviewing key scientists and delineating the social process of the science of gravitational

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Gravitational Waves. Engagingly written and authoritatively comprehensive, Gravity's Shadow explores the people, institutions, and government organizations involved in the detection of gravitational waves. This

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Gravitational Waves will prove essential not only to sociologists and historians of science but to scientists themselves.

Here, Collins reveals that scientific discovery and

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nondiscovery turn on
scientific traditions and
rivalries. that secure
statistical analysis rests
on impossible procedures and
unattainable knowledge, and
that fact in one place is
baseless assumption in

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another. He also argues that sciences like gravitational wave detection, in exemplifying how the intractable is to be handled, can offer scientific leadership a moral beacon for the twenty-

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first century. In the end,
Gravity's Ghost is a
dramatic scientific mystery
with a completely unexpected
conclusion. --Book Jacket.

A fascinating account,
written in real time, of the

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Gravitational Waves
unfolding of a scientific
discovery: the first
detection of gravitational
waves. Scientists have been
trying to confirm the
existence of gravitational
waves for fifty years. Then,
in September 2015, came a

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“very interesting event” (as the cautious subject line in a physicist's email read) that proved to be the first detection of gravitational waves. In Gravity's Kiss, Harry Collins—who has been watching the science of

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Gravitational Waves detection
for forty-three of those
fifty years and has written
three previous books about
it—offers a final,
fascinating account, written
in real time, of the
unfolding of one of the most

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remarkable scientific
discoveries ever made.

Predicted by Einstein in his
theory of general
relativity, gravitational
waves carry energy from the
collision or explosion of
stars. Dying binary stars,

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Gravitational Waves
for example, rotate faster
and faster around each other
until they merge, emitting a
burst of gravitational
waves. It is only with the
development of
extraordinarily sensitive,
highly sophisticated

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Gravitational Waves detectors that physicists can now confirm Einstein's prediction. This is the story that Collins tells. Collins, a sociologist of science who has been embedded in the gravitational wave community

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Gravitational Waves
since 1972, traces the
detection, the analysis, the
confirmation, and the public
presentation and the
reception of the
discovery—from the first
email to the final published
paper and the response of

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Gravitational Waves
professionals and the
public. Collins shows that
science today is
collaborative, far-flung
(with the physical location
of the participants hardly
mattering), and sometimes
secretive, but still one of

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the few institutions that
has integrity built into it.

A pithy yet deep
introduction to Einstein's
general theory of relativity
Of the four fundamental
forces of nature, gravity

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Gravitational Waves

might be the least understood and yet the one with which we are most intimate. On Gravity combines depth with accessibility to take us on a compelling tour of Einstein's general theory of

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relativity. A. Zee begins with the discovery of gravity waves, then explains how gravity can be understood in comparison to other classical field theories, presents the idea of curved spacetime, and

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explores black holes and
Hawking radiation. Zee
travels as far as the theory
reaches, leaving us with
tantalizing hints of the
unknown, from the
intransigence of quantum
gravity to the mysteries of

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dark matter. Infused with Zee's signature warmth and fresh style, On Gravity opens a unique pathway to comprehending relativity, gravity, spacetime, and the workings of the universe.

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Gravity's Ghost and Big Dog brings to life science's efforts to detect cosmic gravitational waves. These ripples in space-time are predicted by general relativity, and their discovery will not only

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demonstrate the truth of
Einstein's theories but also
transform astronomy.

Although no gravitational
wave has ever been directly
detected, the previous five
years have been an
especially exciting period

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in the field. Here sociologist Harry Collins offers readers an unprecedented view of gravitational wave research and explains what it means for an analyst to do work of this kind. Collins was

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Embedded with the
Gravitational Waves

gravitational wave
physicists as they
confronted two possible
discoveries—"Big Dog," fully
analyzed in this volume for
the first time, and the
"Equinox Event," which was

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Gravitational Waves first chronicled by Collins in Gravity's Ghost. Collins records the agonizing arguments that arose as the scientists worked out what they had seen and how to present it to the world, along the way demonstrating

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How even the most
statistical of sciences rest
on social and philosophical
choices. Gravity's Ghost and
Big Dog draws on nearly
fifty years of fieldwork
observing scientists at the
American Laser

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Interferometer Gravitational
Wave Observatory and
elsewhere around the world
to offer an inspired
commentary on the place of
science in society today.

In this Very Short

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Introduction Timothy Clifton looks at the development of our understanding of gravity since the early observations of Kepler and Newtonian theory. He discusses Einstein's theory of gravity, which now supplants

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Newton's, showing how it allows us to understand why the frequency of light changes as it passes through a gravitational field, why GPS satellites need their clocks corrected as they orbit the Earth, and why the

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Orbits of distant neutron stars speed up. Today, almost 100 years after Einstein published his theory of gravity, we have even detected the waves of gravitational radiation that he predicted. Clifton

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Gravitational Waves concludes by considering the testing and application of general relativity in astrophysics and cosmology, and looks at dark energy and efforts such as string theory to combine gravity with quantum mechanics.

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An award-winning science writer traces our millennia-long effort to understand the phenomenon of gravity--the greatest mystery in physics, and a force that has shaped our

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universe and our minds in
ways we have never fully
understood until now.

A young Silicon Valley
engineer stumbles into a
hidden company with advanced
technologies that could

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change the world. But at the same time, he learns this company, his life and the rest of civilization is threatened by a force even more advanced. And the opposition has a head start. The startling discoveries he

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encounters could point to
the origin of life on Earth,
and maybe its final
destruction. With the help
of a beautiful and
mysterious astrophysicist
and a retired math
professor, it's a race

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against time to expose the
conspiracy. Following the
clues takes them on a
frantic chase to the dark
side of the Moon in an
experimental spacecraft and
back to the streets of San
Francisco. What he can't out-

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smart, he has to out fight.
In the battle to save the
Earth he must rely on his
Silicon Valley training and
ability to leverage the new
technologies at his
disposal. But will it be
enough? What can one

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engineer, an astrophysicist
and an old professor do to
save the Earth? Whatever it
takes.

A series of engaging essays
that explore iconic moments
of discovery and debate in

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physicists' ongoing quest to understand the quantum world. The ideas at the root of quantum theory remain stubbornly, famously bizarre: a solid world reduced to puffs of probability; particles that

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Gravitational Waves; cats
suspended in zombielike
states, neither alive nor
dead; and twinned particles
that share entangled fates.
For more than a century,
physicists have grappled
with these conceptual

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uncertainties while enmeshed
in the larger uncertainties
of the social and political
worlds around them, a time
pocked by the rise of
fascism, cataclysmic world
wars, and a new nuclear age.
In Quantum Legacies, David

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Kaiser introduces readers to iconic episodes in physicists' still-unfolding quest to understand space, time, and matter at their most fundamental. In a series of vibrant essays, Kaiser takes us inside

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moments of discovery and
debate among the great minds
of the era—Albert Einstein,
Erwin Schrödinger, Stephen
Hawking, and many more who
have indelibly shaped our
understanding of nature—as
they have tried to make

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sense of a messy world.

Ranging across space and time, the episodes span the heady 1920s, the dark days of the 1930s, the turbulence of the Cold War, and the peculiar political realities that followed. In those eras

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as in our own, researchers' ambition has often been to transcend the vagaries of here and now, to contribute lasting insights into how the world works that might reach beyond a given researcher's limited view.

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In *Quantum Legacies*, Kaiser unveils the difficult and unsteady work required to forge some shared understanding between individuals and across generations, and in doing so, he illuminates the deep

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ties between scientific
exploration and the human
condition.

The problem of quantum
gravity is often viewed as
the most pressing unresolved
problem of modern physics:

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our theories of spacetime and matter, described respectively by general relativity (Einstein's theory of gravitation and spacetime) and quantum mechanics (our best theory of matter and the other

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forces of nature) resist unification. Covered with Deep Mist provides the first book-length treatment of the history of quantum gravity, focusing on its origins and earliest stages of development until the

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mid-1950s. Readers will be guided through the impacts on the problem of quantum gravity resulting from changes in the two ingredient theories, quantum theory and general relativity, which were

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themselves still under
construction in the years
studied. We examine how
several of the core
approaches of today were
formed in an era when the
field was highly
unfashionable. The book aims

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to be accessible to a broad range of readers and goes beyond a merely technical examination to include social and cultural factors involved in the changing fortunes of the field.

Suitable for both newcomers

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Gravitational Waves and seasoned gravity professionals, the book will shine new light on this century-old, unresolved problem.

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