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(140/157)

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*Keating in*

*conversation:*

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Mechanics can't  
be unified~~

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on Quantum  
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was it to

understand

Schwinger?

(73/157) Some

remarks

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alternative  
theories of  
gravitation,  
Leszek M.  
Sokołowski

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Kipping of Cool  
Worlds

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theory of  
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Reflections on  
my career  
(152/157)*

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Dyson

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Universe is

largely autobiog  
raphical,

describing much  
of Dyson's

beliefs and

discoveries in

the context of

his life's

journey. I was

impressed by his



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of the future.

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has proposed. I  
don't remember  
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one of the  
world's greatest  
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personally  
signed by the  
late Freeman  
Dyson. The great  
scientist  
reflects on his  
extraordinary  
career, the  
thrill  
underlying his  
deep engagement  
with the world,  
and his  
ambitions for



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goals science  
can still  
achieve.

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articulate  
scientists to  
present  
themselves in  
their own words.

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Universe, by  
Freeman Dyson -  
Jeffrey Marsh

...

February 28,  
2020. Freeman

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Dyson was a physicist and educator best known for his speculative work on extraterrestrial civilizations and for his work in quantum electrodynamics, solid-state physics, astronomy and

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Freeman Dyson  
nuclear  
engineering. He  
theorized  
several concepts  
that bear his  
name, such as  
Dyson's  
transform, Dyson  
tree, Dyson  
series, and  
Dyson sphere.

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(Author of  
Disturbing the  
Universe)  
Freeman Dyson

tags: pedagogy ,  
scientism. 41  
likes. Like.

“Science is my  
territory, but  
science fiction  
is the landscape  
of my dreams.”.

? Freeman John  
Dyson, Imagined  
Worlds. tags:

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The Universe  
dreams, science

, science-  
Freeman Dyson  
fiction. 40

likes. Like. "It  
is remarkable  
that mind enters  
into our  
awareness of  
nature on two  
separate levels.

---

Freeman Dyson

Quotes (Author

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of Disturbing  
the Universe)  
Astrochicken is  
the name given  
to a thought  
experiment Dyson  
expounded in his  
book Disturbing  
the Universe  
(1979). He  
contemplated how  
humanity could  
build a small,  
self-replicating



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automation that  
could explore  
space more  
efficiently than  
a manned craft  
could.

---

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Wikipedia  
“Disturbing the  
Universe” (1979)  
is a portrait-  
gallery of

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people he has  
known during his  
career as a  
scientist.

“Weapons and  
Hope” (1984) is  
a study of  
ethical problems  
of war and  
peace. “Infinite  
in All  
Directions”  
(1988) is a  
philosophical

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The Universe based  
on Dyson's  
Freeman Dyson  
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on Natural  
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FREEMAN DYSON -  
School of  
Natural Sciences

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the years from  
World War II,  
when he was a  
civilian  
statistician in  
the operations

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research section  
of the Royal Air  
Force Bomber

Command, through  
his studies with  
Hans Bethe at  
Cornell

University, his  
early friendship  
with Richard  
Feynman, and his  
postgraduate  
work with J.  
Robert

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Freeman Dyson  
Freeman Dyson  
has composed an  
autobiography  
unlike any ...

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Emeritus of

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Physics at the  
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Advanced Study  
in Princeton. He  
is the author of  
more than ten  
books and the  
recipient of  
numerous awards  
including a  
National Book  
Critics Circle  
Award, the Phi  
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Prize in  
Physics, the  
Lorentz Medal,  
and the 2000  
Templeton Prize  
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About the

Author: Freeman

Dyson is

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Physics at the

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Advanced Study

in Princeton. He

is the author of

seven books and

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National Book Critics Circle Award and the 2000 Templeton Prize for

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was a civilian  
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of the Royal Air  
Force Bomber  
Command, through  
his studies with  
Hans Bethe at  
Cornell  
University, his  
early friendship  
with Richard  
Feynman, and his  
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work with J.  
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has composed an  
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evocatively  
conveys the  
thrill of a deep  
engagement with  
the world-be it  
as scientist,  
citizen,  
student, or  
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unique career  
not limited to  
his  
groundbreaking  
work in physics,  
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his interest in  
minimizing loss  
of life in war,  
in disarmament,  
and even in  
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experiments on

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observer of  
personality and  
human foibles"

(New York Times  
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Stephen Hawking,  
and Hans Bethe.  
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who were engaged  
in solving some  
of the most  
challenging  
quandaries of tw  
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lends acute  
insight and  
profound  
observations to  
a life's work  
spent chasing  
what Einstein



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called those  
“deep mysteries  
that Nature  
intends to keep  
for herself.”

Whether  
reflecting on  
the drama of  
World War II,  
the moral  
dilemmas of  
nuclear  
development, the  
challenges of

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program, or the  
demands of  
Freeman Dyson

raising six  
children,  
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annotated  
letters reveal  
the voice of one  
"more creative  
than almost  
anyone else of  
his generation"  
(Kip Thorne). An

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illuminating  
work in these  
trying times,  
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discoveries that  
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modern age.

" This is one of  
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astronomers,  
scientists have  
been rebels,  
writes Freeman  
Dyson. Like  
artists and  
poets, they are  
free spirits who  
resist the  
restrictions  
their cultures  
impose on them.  
In their pursuit  
of nature's

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truths, they are  
guided as much  
by imagination  
as by reason,  
and their  
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theories have  
the uniqueness  
and beauty of  
great works of  
art. Dyson argues  
that the best  
way to  
understand

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understanding  
those who

practice it. He  
tells stories of  
scientists at  
work, ranging  
from Isaac  
Newton's  
absorption in  
physics,  
alchemy,  
theology, and  
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Ernest Rutherford's discovery of the structure of the atom, to Albert Einstein's stubborn hostility to the idea of black holes. His descriptions of brilliant physicists like Edward Teller

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Freeman Dyson  
and Richard  
Feynman are  
enlivened by his  
own

reminiscences of  
them. He looks  
with a skeptical  
eye at  
fashionable  
scientific fads  
and fantasies,  
and speculates  
on the future of  
climate

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prediction,  
genetic  
engineering, the  
colonization of  
space, and the  
possibility that  
paranormal  
phenomena may  
exist yet not be  
scientifically  
verifiable.  
Dyson also looks  
beyond  
particular

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questions to  
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broader  
philosophical  
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inquiries of the  
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physics such as

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Oppenheimer, and

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of whom he knew



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personally, and  
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today's most  
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issues, from  
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Dyson, whomThe

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concepts, and an  
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approach to the  
triumphs,  
blunders,  
mysteries, and  
dreams of  
scientific  
inquiry into the  
natural world.

Readers of  
Freeman Dyson's  
previous books,  
Disturbing the  
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*Page 75/91*

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Weapons and  
Hope, and  
Infinite in All  
Directions, have  
discovered for  
themselves what  
Dyson reveals  
here: that he  
was a writer  
long before he  
became a  
distinguished  
scientist. The  
aim of this new

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book, as Dyson says, is to open windows, to let the experts inside the temple of science see out, and to let the ordinary citizens outside see in." In this process an immensely broad range of ideas,

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people,  
contemporary  
history, and  
discoveries of  
many sorts pass  
in review.

Beginning with a  
piece of writing  
he did as a  
child and ending  
with recent  
work, he goes  
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god or youthful

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passion, to  
Gaia, the  
fertile life-  
giving mother-  
planet Earth.  
The pilgrimage  
is a good  
metaphor for the  
life of a  
writer. This  
book is full of  
discoveries. In  
the company of  
one of the most

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The lucid minds of our time, one approaches great men and problems central to our common existence.

Always there is warmth, kindness, high intelligence and humor. Dyson is intimate with both science and



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man. Whether he is dealing with the problems of physics or politics, whether he is engrossed in astronomy or literature, whether he is concentrating on an African village of space science, Dyson's

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view is always  
“infinite in all  
directions,”  
always following  
the path of  
diversity,  
always keeping  
his eye on the  
wonder of our  
earth and the  
health and  
happiness of its  
inhabitants.

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Freeman Dyson's latest book does not attempt to bring together all of the celebrated physicist's thoughts on science and technology into a unified theory. The emphasis is, instead, on the

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myriad ways in  
which the  
universe

presents itself  
to us--and how,  
as observers and  
participants in  
its processes,  
we respond to  
it. "Life, like  
a dome of many-  
colored glass,"  
wrote Percy  
Bysshe Shelley,

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"stains the  
white radiance  
of eternity."

The author seeks here to explore the variety that gives life its beauty. Taken from Dyson's recent public lectures--delivered to audiences with no specialized

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knowledge in  
hard  
sciences--the  
book begins with  
a consideration  
of the practical  
and political  
questions  
surrounding  
biotechnology.  
As he seeks how  
best to explain  
the place of  
life in the

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universe, Dyson then moves from the ethical to the purely scientific. The book concludes with an attempt to understand the implications of biology for philosophy and religion. The pieces in this collection touch

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on numerous disciplines, from astronomy and ecology to neurology and theology, speaking to the lay reader as well as to the scientist. As always, Dyson's view of human nature and behavior is



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balanced, and  
his predictions  
of a world to  
come serve  
primarily as a  
means for  
thinking about  
the world as it  
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