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proportions. This
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December 3,
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was to reveal the
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legacy, and to
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continuation in
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pathway for new
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in which Weiner
worked have
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thoughts and
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worked have
presented his
thoughts and
contributions
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presents the

entire body of:

thought of

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(1894-1964),

knowledge of

which is

essential if one

wishes to

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**understand and
correctly**

**interpret the age
in which we live.**

**The focus is in
particular on the
philosophical**

**and sociological
aspects of**

**Wiener's
thought, but
these aspects are
carefully framed
within the**

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**context of his
scientific
journey. My
Important
biographical
events, including
some that were
previously
unknown, are
also highlighted,
but while the
book has a
biographical
structure, it is**

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**not only a
biography. The
book is divided
into four
chronological
sections, the first
two of which
explore Wiener's
development as a
philosopher and
logician and his
brilliant interwar
career as a
mathematician,**

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**supported by his
philosophical
background. The
third section
considers his
research during
World War II,
which drew upon
his previous
scientific work
and reflections
and led to the
birth of
cybernetics.**

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**Finally, the
radical post-war
shift in Wiener's
intellectual path
is considered,
examining how
he came to
abandon
computer science
projects and
commenced
ceaseless public
reflections on
the new sciences**

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**and technologies
of information,
their social
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need for
responsibility in
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stand as
landmarks in
social and
scientific
upheaval.
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that small
company.**

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science of
cybernetics—the
study of the
relationship
between**

**computers and
the human
nervous
system—Wiener
was widely**

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**misunderstood
as one who
advocated the
automation of
human life. As
this book reveals,
his vision was
much more
complex and
interesting. He
hoped that
machines would
release people
from relentless**

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**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.
How Control
Exists after**

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**Decentralization
Is the Internet a
vast arena of
unrestricted
communication
and freely
exchanged
information or a
regulated, highly
structured
virtual
bureaucracy? In
Protocol,
Alexander**

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Galloway argues that the founding principle of the Net is control, not freedom, and that the controlling power lies in the technical protocols that make network connections (and disconnections) possible. He does

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**this by treating
the computer as
a textual medium
that is based on a
technological
language, code.
Code, he argues,
can be subject to
the same kind of
cultural and
literary analysis
as any natural
language;
computer**

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**languages have
their own syntax,
grammar,
communities,
and cultures.
Instead of
relying on
established
theoretical
approaches,
Galloway finds a
new way to write
about digital
media, drawing**

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**on his
backgrounds in
computer
programming
and critical
theory. "Disciplin
e-hopping is a
necessity when it
comes to
complicated
socio-technical
topics like
protocol," he
writes in the**

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**preface. Galloway
begins by
examining the
types of
protocols that
exist, including
TCP/IP, DNS, and
HTML. He then
looks at
examples of
resistance and su
bversion—hacker
s, viruses,
cyberfeminism,**

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**Internet
art—which he
views as
emblematic of
the larger
transformations
now taking place
within digital
culture. Written
for a
nontechnical
audience,
Protocol serves
as a necessary**

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the wildly
utopian visions
of the Net that
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*Does science work
best in a
democracy? Were*

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***'Soviet' or 'Nazi'
science***

fundamentally

different from

science in the

USA? These

questions have

been passionately

debated in the

recent past.

Particular

developments in

science took place

under particular

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*political regimes,
but they may or
may not have been
directly
determined by
them. Science and
Ideology brings
together a number
of comparative
case studies to
examine the
relationship
between science
and the dominant*

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*ideology of a state.
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USA is compared
to France and the
Soviet Union.
Postwar Allied
science policy in
occupied Germany
is juxtaposed to
that in Japan. The
essays are narrowly
focussed, yet cover
a wide range of
countries and*

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spanning a wide
spectrum of
harmonic analysis*

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written by speakers
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edge results by an
impressive array of
mathematicians,
engineers, and
scientists in
academia, industry
and government, it*

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engineering.***

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a biographical
history of the field
of systems
thinking, by***

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and work of thirty
of its major
thinkers. It
discusses each
thinker's key
contributions, the
way this
contribution was
expressed in
practice and the
relationship
between their life
and ideas. This***

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discussion is supported by an extract from the thinker's own writing, to give a flavour of their work and to give readers a sense of which thinkers are most relevant to their own interests. Dark Hero of the Information Age Cybernetics or

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Wiener***

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*is the second
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Wiener on time

series and

communication

engineering.

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one,

"Cybernetics, "

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*treated the
subject from a
general
standpoint and
was more
philosophical
than
mathematical,
the present
volume is more
technical than
theoretical, and
forms a kind of
companion piece*

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to the first. It is intended as a tool for engineers working in the field of electrical communication and related subjects. The book consists of an introduction, five chapters, and three

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appendices.

After explaining
the general

outline of the

problem in the
introduction,

the author gives
in Chapter I a

review of

generalized

harmonic

analysis which

is necessary for
the

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understanding of
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the following
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chapters.*

*Childhood And
III are devoted
Youth And I Am A
to the problems
Mathematician:
of prediction
The Later Life Of
and filtering
A Prodigy
respectively. In
Chapter IV there
is given a brief
account of the
theory of
multiple*

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*prediction, that
is, the theory
of prediction
when we deal
with more than
one time series
at the same
time. Finally,
in Chapter V
there is given a
short discussion
on the
application of
similar methods*

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*to a problem of
approximate
differentiation.*

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was one of the
great
mathematicians
of this century.*

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Works reprint
all of Wiener's
scientific and
scholarly
papers, with*

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prominent*

scholars that

place them in

the context of

present day

research. The

first three

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contributions

spanning

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The Later Life Of fourth and final
A Prodigy volume contains
his work in the
field he
christened
"cybernetics" -
a synthesis of
communication*

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*and control in
animal, man, and
machine: - and
its applications
in engineering,
neurophysiology,
and in
particular
encephalography
and sensory
prosthesis.*

*Wiener's
incisive social,
education, and*

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literary essays
are also
included. This
volume is
particularly
timely in that
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publicly debated
problems - the
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consequences of
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social responsibilities of scientists - were clearly foreseen by Wiener 40 years ago. The solutions he proposed then are illuminating now more than ever.

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Saeks, A. L.
Mathematician:
Samuel, H. von
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Foerster, M. S.
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Watanabe, and R.
L. Wilder. Some

of these
commentaries are
comprehensive
essays on topics

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*that Wiener's
work has put on
the intellectual
horizon. P*

*Masani,
University
Professor of
Mathematics at
the University
of Pittsburgh,
and a former
collaborator of
Wiener, also
edited the first*

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will be an

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brilliant MIT
mathematician,
Norbert Wiener
founded the
revolutionary science
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information-age
explosion of
computers,
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on interfaces,
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operations, and
The Doctor: If Of
procedures, Losh
Analyzing
analyzes the ideologies
Already
revealed in
government's digital
discourse, its anxieties
about new online
practices, and what

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happens when
officially sanctioned
material is parodied,
remixed, or
recontextualized by
users. Losh reports on
a video game that
panicked the House
Intelligence

Committee, pedagogic
and therapeutic digital
products aimed at
American soldiers,

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government Web sites
in the weeks and
months following
9/11, PowerPoint
presentations by
government officials
and gadflies, e-mail as
a channel for
whistleblowing, digital
satire of surveillance
practices, national
digital libraries, and
computer-based

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training for health professionals. Losh concludes that the government's "virtualpolitik"--its digital realpolitik--aimed at preserving its own power--is focused on regulation, casting as criminal such common online activities as file sharing, video-game

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The Electronic Life Of
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play, and social
networking. This
policy approach, she
warns, indefinitely
postpones building
effective institutions
for electronic
governance, ignores
constituents' need to
shape electronic
identities to suit their
personal politics, and
misses an opportunity

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to learn how citizens
can have meaningful
interaction with the
virtual manifestations
of the state.

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A Tribute to Dr
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the Memory of the
'father' of Cybernetics

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Virtualpolitik
Life Of
Contribution from the
Department of
Mathematics
A classic and
influential

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work that laid
the
theoretical
foundations
for
information
theory and a
timely text
for
contemporary
informations
theorists and

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practitioners.
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With the
Prodigy: My
influential
Childhood And
book
Youth And I Am A
Cybernetics,
Mathematician:
first
The Later Life Of
published in
A Prodigy
1948, Norbert
Wiener laid
the
theoretical
foundations

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for the multidisciplinary field of cybernetics, the study of controlling the flow of information in systems with feedback loops, be they biological,

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mechanical,
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cognitive, or
Prodigy: My
social. At the
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core of
Youth And I Am A
Wiener's
Mathematician:
theory is the
The Later Life Of
message
A Prodigy
(information),
sent and
responded to
(feedback);
the

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functionality
of a machine,
organism, or
society
depends on the
quality of
messages.

Information
corrupted by
noise prevents
homeostasis,
or

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equilibrium.
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And yet
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as
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philosophical
Mathematician:
as it is
The Later Life Of
technical,
A Prodigy
with the first
chapter
devoted to
Newtonian and
Bergsonian

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time and the
philosophical
mixed with the
technical
throughout.

This book
brings the
1961 second
edition back
into print,
with new
forewords by

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Doug Hill and
Sanjoy Mitter.

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readers of

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will marvel at

Wiener's
prescience—his

warnings
against

"noise," his
disdain for

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"hucksters"
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and "gadget
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worshipers,"
Childhood And
and his view
Youth And I Am A
of the mass
Mathematician:
media as the
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single
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greatest anti-
homeostatic
force in
society. This
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gives a new
generation

access to a

classic text.

This media

history

explores a

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devices, and
storage units
that have made
the production
of film and
video
available to
everyone.

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several
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analogue
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the 1970s, to
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the
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compression
algorithms of
the 2000s,
this work
examines the

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effects that
the shrinkage
of complex
machines,
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and processing
operations has
had on the
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an

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approach to
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media, the
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author
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provides a
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genealogy of
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video, and
digitally
encoded video.
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step forward
in decoding
the storage
media formats,
which up to
now have been
the domain of
highly

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cybernetics—wh
en it was
taken up by
scientists,
engineers,
science
fiction
writers,
artists, and m
usicians—Ex-
Prodigy (1953)
and I Am a

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Mathematician
(1956)
received
attention from
both scholarly
and mainstream
publications,
garnering
reviews and
publicity in
outlets that
ranged from

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Norbert Wiener
was a

mathematician
with extraordi
narily broad
interests. The

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son of a
Harvard
professor of
Slavic
languages,
Wiener was
reading Dante
and Darwin at
seven,
graduated from
Tufts at
fourteen, and

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received a PhD
from Harvard
at eighteen.
He joined
MIT's
Department of
Mathematics in
1919, where he
remained until
his death in
1964 at sixty-
nine. In Ex-

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Prodigy,
Wiener offers
an emotionally
raw account of
being raised
as a child
prodigy by an
overbearing
father. In I
Am a
Mathematician,
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describes his
research at
MIT and how he
established
the
foundations
for the multid
isciplinary
field of
cybernetics
and the theory
of feedback

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systems. This
volume makes
available the
essence of
Wiener's life
and thought to
a new
generation of
readers.

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rapidly growing
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field of

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communication
sciences owes
as much to
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as to any one

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Inc., the
author
concerned
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himself with
major points in
cybernetics
which are
relevant to
religious

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Artificially

issues. The
first point he
considers is
that of the
machine which
learns. While
learning is a
property almost
exclusively
ascribed to the
self-conscious
living system,
a computer now

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exists which
not only can be
programmed to
play a game of
checkers, but
one which can:
"learn" from
its past
experience and
improve on its
own game. For a
time, the
machine was

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author, "and it:
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able to beat
its inventor at
checkers. "It
did win,"
writes the
author, "and it:
did learn to
win; and the
method of its
learning was no
different in
principle from
that of the

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A human being who
learns to play
checkers. A
second point
concerns
machines which
have the
capacity to
reproduce
themselves. It
is our commonly
held belief
that God made

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man in his own
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image. The
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propagation of
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the race may
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also be
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interpreted as
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a function in
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which one
living being
makes another
in its own
image. But the
author

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demonstrates
that man has
made machines
which are "very
well able to
make other
machines in
their own
image," and
these machine
images are not
merely
pictorial

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representations
but operative
images. Can we
then say: God
is to Golem as
man is to
Machines? in
Jewish legend,
golem is an
embryo Adam,
shapeless and
not fully
created, hence

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a monster, an automation. The third point considered is that of the relation between man and machine. The concern here is ethical.

"render unto
man the things
which are man's

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and unto the
computer the
things which
are the
computer's," Am A
warns the
author. In this
section of the
book, Dr.

Wiener
considers
systems
involving

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elements of man
and machine.

The book is
written for the
intellectually Am A
alert public:

and does not
involve any
highly

technical
knowledge. It
is based on
lectures given

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at Yale, at the
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Soci t 
Philosophique
de Royaumont,
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and elsewhere.

"In
Mathematician:
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contextualizing
the theory of
cybernetics,
Mindell gives
engineering
back forgotten
parts of its

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change." --

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**Norbert Wiener
was an American
mathematician
and philosopher.**

**He was a
professor of
mathematics at
the**

**Massachusetts
Institute of
Technology
(MIT). A child
prodigy, Wiener**

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***later became an
early researcher
in stochastic and
mathematical
noise processes,
contributing
work relevant to
electronic
engineering,
electronic
communication,
and control
systems. Wiener
is considered the***

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*originator of
cybernetics; a
formalization of
the notion of
feedback, with
implications for
engineering,
systems control,
computer
science, biology,
neuroscience,
philosophy, and
the organization
of society.*

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***Wiener thought
on a grand scale
and stressed the
adaptation of
technical
concepts from
pure
mathematics and
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engineering
outside their
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contexts.***

Masani's

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***interesting and
thoughtful book
analyses both
Wiener's
mathematical
and his
nonmathematical
ideas in
sympathetic and
sensitive detail.
Readers will find
much to
appreciate in this
book, in addition***

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***to the discussion
of Wiener's
technical
research.***
***This book
contains lectures
presented at the
MIT symposium
on the 100th
anniversary of
Norbert Wiener's
birth held in
October 1994.
The topics reflect***

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Wiener's main interests while emphasizing current developments. In addition to lectures dealing directly with problems on which Wiener worked, such as potential theory, harmonic analysis, Wiener-

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*Hopf theory, and
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theory, the book
discusses the
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operators with
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researchers an
overview of new
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problems
presented by
other areas and
gives researchers
in other fields a
broad overview of
the ways in
which advanced
mathematics
might be useful**

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to them.

**This edition of
Volume 72,
Number 1, Part
II, January 1966,
of the Bulletin is
dedicated to the
memory of
Norbert Wiener.
God & Golem,
Inc.**

**Differential
Space, Quantum
Systems, and**

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Or Why We Call
Our Age the
Information Age
Technology,
Society, and
Compromises
The Legacy of
Norbert Wiener
a tribute to Dr.
Norbert Wiener :
a vol. dedicated
to the memory of
the "father" of***

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***cybernetics Dr.
Norbert Wiener
1894-1964***

***Harmonies of
Disorder***

Cybernetics—the science of communication and control as it applies to machines and to humans—originates from efforts during World War II to build automatic anti-aircraft

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systems. Following the war, this science extended beyond military needs to examine all systems that rely on information and feedback, from the level of the cell to that of society. In *The Cybernetics Moment*, Ronald R. Kline, a senior historian of technology, examines

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the intellectual and cultural history of cybernetics and information theory, whose language of "information," "feedback," and "control" transformed the idiom of the sciences, hastened the development of information technologies, and laid the conceptual

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foundation for what
we now call the
Information Age.

Kline argues that, for
about twenty years
after 1950, the growth
of cybernetics and
information theory
and ever-more-
powerful computers
produced a utopian
information
narrative—an
enthusiasm for

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information science
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that influenced natural
Reading My
scientists, social
Scientists, engineers,
Childhood And
humanists,
Youth And I Am A
policymakers, public
Mathematician:
intellectuals, and
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journalists, all of
A Prodigy
whom struggled to
come to grips with new
relationships between
humans and intelligent
machines. Kline traces
the relationship

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between the invention
of computers and
communication
systems and the rise,
decline, and
transformation of
cybernetics by
analyzing the lives and
work of such notables
as Norbert Wiener,
Claude Shannon,
Warren McCulloch,
Margaret Mead,
Gregory Bateson, and

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Herbert Simon.

Ultimately, he reveals the crucial role played by the cybernetics moment—when cybernetics and information theory were seen as universal sciences—in setting the stage for our current preoccupation with information technologies.

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Second Edition. Full facsimile of the original edition, not reproduced with Optical Recognition Software. Acclaimed one of the "seminal books... comparable in ultimate importance to... Galileo or Malthus or Rousseau or Mill," "Cybernetics" was judged by twenty-seven historians,

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economists, educators,
and philosophers to be
one of those books
published during the
"past four decades,"
which may have a
substantial impact on
public thought and
action in the years
ahead." -- Saturday
Review. Cybernetics
was defined in the mid
20th century by
Norbert Wiener as

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"the scientific study of control and communication in the animal and the machine." Fields of study which have influenced or been influenced by cybernetics include game theory, system theory (a mathematical counterpart to cybernetics),

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perceptual control
Cybernetics: Ex
theory, sociology,
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psychology (especially
Neuro-psychology,
Children's World
behavioral psychology,
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cognitive psychology),
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philosophy,
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architecture, and
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organizational theory.

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reproducing machines
- Brain waves and self
- organizing systems.
Focusing on laws
relating to intellectual
property and freedom
of expression, this
book covers legal
issues relating to
information
technology and the
Internet. Exploring
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