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Communication
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***Principles
Of Digital
Communication
Mit Op
encoursewa
re***

**A
comprehensive
text that**

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Principles Of
Digital
Communication
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OpenCourseWare

***takes a unique
top-down
approach to
teaching the
fundamentals
of digital
communication
for a one-
semester
course.
How insights
from the social***

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Digital
sciences,
Communication
including
Mit
social
OpenCourseWare
psychology
and
economics,
can improve
the design of
online
communities.
Online
communities

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**are among the
most popular
destinations
on the
Internet, but
not all online
communities
are equally
successful. For
every
flourishing
Facebook,**

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Digital

there is a moribund Friendster—not to mention the scores of smaller social networking sites that never attracted enough members to be

Read Free
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Digital
***viable. This
book offers
lessons from
theory and
empirical
research in
the social
sciences that
can help
improve the
design of
online***

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Digital
communities.
Communication
The authors
Mit
draw on the
OpenCourseWare
literature in
psychology,
economics,
and other
social
sciences, as
well as their
own research,
translating

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general findings into useful design claims. They explain, for example, how to encourage information contributions based on the theory of public goods,

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***and how to
build
members'
commitment
based on
theories of
interpersonal
bond
formation. For
each design
claim, they
offer***

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Digital
Communication
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***supporting
evidence from
theory,
experiments,
or
observational
studies.
Inspired by
the vision and
framework
outlined in
Christopher***

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**Alexander's
classic 1977
book, A
Pattern
Language,
Schuler
presents a
pattern
language
containing 136
patterns
designed to**

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Digital
Communication
Mit
OpenCourseWare

***meet these
challenges.
Using this
approach,
Schuler
proposes a
new model of
social change
that
integrates
theory and
practice by***

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***showing how
information
and
communication (whether
face-to-face,
broadcast, or I
nternet-based)
can be used to
address
urgent social
and***

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***environmental
problems colla
boratively.
Each of the
patterns that
form the
pattern
language
(which was
developed
collaboratively
with nearly***

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Digital
100
Communication
Mit
OpenCourseWare
contributors)
is presented
consistently;
each describes
a problem and
its context, a
discussion,
and a solution.
The pattern
language
begins with

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***the most
general
patterns
("Theory") and
proceeds to
the most
specific
("Tactics").
Each pattern
is a template
for research as
well as action***

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***and is linked
to other
patterns, thus
forming a
single
coherent
whole.
A classic and
influential
work that laid
the theoretical
foundations***

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for
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information
theory and a
timely text for
contemporary
informations
theorists and
practitioners.
With the
influential
book
Cybernetics,

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***first published
in 1948,
Norbert
Wiener laid
the theoretical
foundations
for the multidisciplinary field
of cybernetics,
the study of
controlling the
flow of***

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Digital
**information in
Communication
systems with
Mit
feedback
Opencourseware
loops, be they
biological,
mechanical,
cognitive, or
social. At the
core of
Wiener's
theory is the
message**

Read Free
Principles Of
Digital
**(information),
sent and
responded to
(feedback);
the
functionality
of a machine,
organism, or
society
depends on
the quality of
messages.**

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Digital
Information
Communication
Mit
OpenCourseWare
**corrupted by
noise prevents
homeostasis,
or equilibrium.
And yet
Cybernetics is
as
philosophical
as it is
technical, with
the first**

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Digital
Communication
Mit
Opencourseware

***chapter
devoted to
Newtonian and
Bergsonian
time and the
philosophical
mixed with the
technical
throughout.
This book
brings the
1961 second***

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***edition back
into print, with
new forewords
by Doug Hill
and Sanjoy
Mitter.***

***Contemporary
readers of
Cybernetics
will marvel at
Wiener's presc
ience—his***

Read Free
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Digital
**warnings
against
“noise,” his
disdain for
“hucksters”
and “gadget
worshipers,”
and his view
of the mass
media as the
single
greatest anti-**

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***homeostatic
force in
society. This
edition of
Cybernetics
gives a new
generation
access to a
classic text.
Interdisciplina
ry essays on
the***

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Digital
Communication
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***relationship
between
practice and
theory in new
media.***

***Arguing that
"first
encounters"
have already
applied
traditional
theoretical***

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Digital
and
Communication
Mit
conceptual
OpenCourseWare
frameworks to
digital media,
the
contributors to
this book call
for "second
encounters,"
or a revisiting.
Digital media
are not only

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Digital
Communication
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Opencourseware

***objects of
analysis but
also
instruments
for the
development
of innovative
perspectives
on both media
and culture.
Drawing on
insights from***

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***literary
theory,
semiotics,
philosophy,
aesthetics,
ethics, media
studies,
sociology, and
education, the
contributors
construct new
positions from***

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Digital
Communication
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***which to
observe digital
media in fresh
and
meaningful
ways.***

***Throughout
they explore
to what extent
interpretation
of and experi
mentation***

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***with digital
media can
inform theory.
It also asks
how our
understanding
of digital
media can
contribute to
our
understanding
of social and***

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Principles Of
Digital
**cultural
change. The
book is
organized in
four sections:
Education and
Interdisciplina
rity, Design
and
Aesthetics,
Rhetoric and
Interpretation,**

Read Free
Principles Of
Digital
**and Social
Theory and
Ethics. The
topics include
the effects on
reading of the
multimodal
and
multisensory
aspects of the
digital
environment,**

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***the impact of
practice on
the medium of
theory, how
digital media
are dissolving
the
boundaries
between
leisure and
work, and the
impact of***

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Principles Of
Digital
**cyberspace on
established
ethical
principles.
Wireless Com
munications
Applied Digital
Signal
Processing
Principles of C
ommunication
Engineering**

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***Introduction to
Digital Commu
nications
Principles,
Theories, and
Methods of Co
mputer-aided
Design
Principles of
eHealth and
mHealth to
Improve***

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Quality of Care
Deming's classic
work on
management,
based on his
famous 14 Points
for Management.
"Long-term
commitment to
new learning and
new philosophy
is required of any

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**management that
seeks
transformation.
The timid and the
fainthearted, and
the people that
expect quick
results, are
doomed to
disappointment."
—from Out of the
Crisis In his**

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Mit
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**classic Out of the
Crisis, W.
Edwards Deming
describes the
foundations for a
completely new
and
transformational
way to lead and
manage people,
processes, and
resources.**

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Principles Of
Digital

**Translated into
twelve languages
and continuously
in print since its
original
publication, it has
proved highly
influential.**

**Research shows
that Deming's
approach has
high levels of**

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Communication
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**success and
sustainability.
Readers today
will find Deming's
insights relevant,
significant, and
effective in
business thinking
and practice. This
edition includes a
foreword by
Deming's**

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**grandson, Kevin
Edwards Cahill,
and Kelly Allan,
business**

**consultant and
Deming expert.
According to
Deming,
American
companies
require nothing
less than a**

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**transformation of
management
style and of
governmental
relations with
industry. In Out
of the Crisis,
originally
published in
1982, Deming
offers a theory of
management**

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based on his famous 14 Points for Management. Management's failure to plan for the future, he claims, brings about loss of market, which brings about loss of jobs.

Management

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Communication
Mit
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**must be judged
not only by the
quarterly
dividend, but by
innovative plans
to stay in
business, protect
investment,
ensure future
dividends, and
provide more
jobs through**

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**improved product
and service. In
simple, direct
language,
Deming explains
the principles of
management
transformation
and how to apply
them.
This book
concerns digital**

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Principles Of
Digital
communication.
Communication
Specifically, we
Mit
treat the
Opencourseware
transport of bit
streams from one
geographical
location to
another over
various physical
media, such as
wire pairs,
coaxial cable,

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Communication
Mit
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**optical fiber, and
radio waves.**

**Further, we cover
the multiplexing,
multiple access,
and
synchronization
issues relevant to
constructing com
munication
networks that
simultaneously**

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Digital
Communication
Mit
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**transport bit
streams from
many users. The
material in this
book is thus
directly relevant
to the design of a
multitude of
digital
communication
systems,
including for**

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Communication
Mit
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**example local
and metropolitan
area data net
works, voice and
video telephony
systems, the
integrated
services digital
network (ISDN),
computer
communication
systems,**

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**voiceband data
modems, and
satellite
communication
systems. We
extract the
common
principles
underlying these
and other
applications and
present them in a**

Read Free
Principles Of
Digital
**unified
framework. This
book is intended
for designers and
would-be
designers of
digital
communication
systems. To limit
the scope to
manageable
proportions we**

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have had to be selective in the topics covered and in the depth of coverage. In the case of advanced information, coding, and detection theory, for example, we have not tried to

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Communication
Mit
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**duplicate the in-
depth coverage
of many
advanced
textbooks, but
rather have tried
to cover those
aspects directly
relevant to the
design of digital
communication
systems.**

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Communication
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**Questions about
access to
scholarship have
always raged.**

**The great
libraries of the
past stood as
arguments for
increasing
access. John
Willinsky
describes the**

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Communication
Mit
OpenCourseWare

**latest chapter in
this ongoing
story - online
open access
publishing by
scholarly
journals and
makes a case for
open access as a
public good.
Yehuda Kalay
offers a**

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Communication
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**comprehensive
exposition of the
principles,
methods, &
practices that
underlie
architectural
computing. He
discusses
pertinent aspects
of information
technology,**

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Communication
Mit
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**analyses the
benefits &
drawbacks of
particular
computational
methods, & looks
into the future.
These twenty
lectures have
been developed
and refined by
Professor Siebert**

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**during the more
than two decades
he has been
teaching
introductory
Signals and
Systems courses
at MIT. The
lectures are
designed to
pursue a variety
of goals in**

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**parallel: to
familiarize
students with the
properties of a
fundamental set
of analytical
tools; to show
how these tools
can be applied to
help understand
many important
concepts and**

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**devices in
modern
communication
and control
engineering
practice; to
explore some of
the mathematical
issues behind the
powers and
limitations of
these tools; and**

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to begin the development of the vocabulary and grammar, common images and metaphors, of a general language of signal and system theory. Although broadly organized as a

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**series of
lectures, many
more topics and
examples (as well
as a large set of
unusual
problems and
laboratory
exercises) are
included in the
book than would
be presented**

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**orally. Extensive
use is made
throughout of
knowledge
acquired in early
courses in
elementary
electrical and
electronic
circuits and
differential
equations.**

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Digital

**Contents: Review
of the "classical"
formulation and
solution of
dynamic
equations for
simple electrical
circuits; The
unilateral Laplace
transform and its
applications;
System**

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**functions; Poles
and zeros;
Interconnected
systems and
feedback; The
dynamics of
feedback
systems;
Discrete-time
signals and linear
difference
equations; The**

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**unilateral Z-
transform and its
applications; The
unit-sample
response and
discrete-time
convolution;
Convolutional
representations
of continuous-
time systems;
Impulses and the**

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**superposition
integral; Frequen
cy-domain
methods for
general LTI
systems; Fourier
series; Fourier
transforms and
Fourier's
theorem;
Sampling in time
and frequency;**

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**Filters, real and
ideal; Duration,
rise-time and
bandwidth
relationships:
The uncertainty
principle;
Bandpass
operations and
analog
communication
systems; Fourier**

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**transforms in
discrete-time
systems;
Random Signals;
Modern
communication
systems. William
Siebert is Ford
Professor of
Engineering at
MIT. Circuits,
Signals, and**

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**Systems is
included in The
MIT Press Series
in Electrical
Engineering and
Computer
Science,
copublished with
McGraw-Hill.
A Top-Down
Approach
Theory and**

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**Practice
Reclaiming
Conversation
Fundamentals of
Wireless
Communication
Out of the Crisis,
reissue
Building a
Modern
Computer from
First Principles**

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*Science and
tech expert
George
Zarkadakis
presents an
indispensable
guide to
making liberal
democracies
more
inclusive, and
the digital*

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*economy more
equitable in
the coming
Fourth*

*Industrial
Revolution.
Around the
world, liberal
democracies
are in crisis.
Citizens have
lost faith in*

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*their
government;
right-wing
nationalist
movements
frame the
political
debate. At the
same time,
economic
inequality is
increasing*

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Communication
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*dramatically;
digital
technologies
have created a
new class of
super-rich
entrepreneurs.
Automation
threatens to
transform the
free economy
into a zero-*

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Principles Of
Digital

*sum game in
which capital
wins and labor
loses. But is
this digital
dystopia
inevitable? In
Cyber
Republic,
George
Zarkadakis
presents an*

Read Free
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Digital

*alternative,
outlining a
plan for using
technology to
make liberal
democracies
more inclusive
and the
digital
economy more
equitable.*

Cyber Republic

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*is no less
than a guide
for the coming
Fourth
Industrial
Revolution.
"Savvy and
insightful."
--New York
Times
Technology has
become the*

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Opencourseware

*architect of
our
intimacies.
Online, we
fall prey to
the illusion
of
companionship,
gathering
thousands of
Twitter and
Facebook*

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Digital
*friends, and
confusing
tweets and
wall posts
with authentic
communication.
But this
relentless
connection
leads to a
deep solitude.
MIT professor*

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Digital
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Mit
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*Sherry Turkle
argues that as
technology
ramps up, our
emotional
lives ramp
down. Based on
hundreds of
interviews and
with a new
introduction
taking us to*

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Digital
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Mit
Opencourseware

*the present
day, Alone
Together
describes
changing,
unsettling
relationships
between
friends,
lovers, and
families.
Scholars from*

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*across law and
internet and
media studies
examine the
human rights
implications
of today's
platform
society. Today
such companies
as Apple,
Facebook,*

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Digital

*Google,
Microsoft, and
Twitter play
an*

*increasingly
important role
in how users
form and
express
opinions,
encounter
information,*

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Digital

debate,
disagree,
mobilize, and
maintain their
privacy. What
are the human
rights
implications
of an online
domain managed
by privately
owned

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*platforms?
According to
the Guiding
Principles on
Business and
Human Rights,
adopted by the
UN Human Right
Council in
2011,
businesses
have a*

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*responsibility
to respect
human rights
and to carry
out human
rights due
diligence. But
this goal is
dependent on
the
willingness of
states to*

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*encode such
norms into
business
regulations
and of
companies to
comply. In
this volume,
contributors
from across
law and
internet and*

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*media studies
examine the
state of human
rights in
today's
platform
society. The
contributors
consider the
"datafication"
of society,
including the*

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*economic model
of data
extraction and
the conceptual
ization of
privacy. They
examine online
advertising,
content
moderation,
corporate
storytelling*

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*around human
rights, and
other platform
practices.
Finally, they
discuss the
relationship
between human
rights law and
private
actors,
addressing*

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Digital

*such issues as
private
companies'
human rights r
responsibilitie
s and content
regulation.*

*Contributors
Anja Bechmann,
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Whelan,
Jillian C.*

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York, Shoshana
Communication
Zuboff, Ethan
Mit
Zuckerman Open
Opencourseware
access edition
published with
generous
support from
Knowledge
Unlatched and
the Danish
Council for
Independent

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Digital
Research.
Communication
Mit
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*An exploration
of the
technical,
social, legal,
and economic
aspects of the
scholarly
infrastructure
needed to
support
research*

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Communication
Mit
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*activities in
all fields in
the twenty-
first century.
Scholars in
all fields now
have access to
an
unprecedented
wealth of
online
information,*

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Digital
tools, and
Communication
services. The
Mit
Internet lies
Opencourseware
at the core of
an information
infrastructure
for
distributed, d
ata-intensive,
and
collaborative
research.

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Although much attention has been paid to the new technologies making this possible, from digitized books to sensor networks, it is the

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Digital
*underlying
social and
policy changes
that will have
the most
lasting effect
on the
scholarly
enterprise. In
Scholarship in
the Digital
Age, Christine*

Read Free
Principles Of

*Borgman
explores the
technical,
social, legal,
and economic
aspects of the
kind of
infrastructure
that we should
be building
for scholarly
research in*

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Digital
Communication
Mit
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*the twenty-
first century.
Borgman
describes the
roles that
information
technology
plays at every
stage in the
life cycle of
a research
project and*

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Digital
Communication
Mit
Opencourseware

*contrasts
these new
capabilities
with the
relatively
stable system
of scholarly
communication,
which remains
based on
publishing in
journals,*

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Principles Of
Digital
books, and
Communication
conference
Mit
proceedings.
Opencourseware
No framework
for the
impending
“data deluge”
exists
comparable to
that for
publishing.
Analyzing

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Digital
Communication
Mit
Opencourseware

*scholarly
practices in
the sciences,
social
sciences, and
humanities,
Borgman
compares each
discipline's
approach to
infrastructure
issues. In the*

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Digital

*process, she
challenges the
many
stakeholders
in the
scholarly infr
astructure—sch
olars,
publishers,
libraries,
funding
agencies, and*

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Digital

*others—to look
beyond their
own domains to
address the
interaction of
technical,
legal,
economic,
social,
political, and
disciplinary
concerns.*

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Digital
Communication
Mit
Opencourseware

*Scholarship in
the Digital
Age will
provoke a
stimulating
conversation
among all who
depend on a
rich and
robust
scholarly
environment.*

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Digital
Communication
Mit
Opencourseware

*How control
over
information
creation,
processing,
flows, and use
has become the
most effective
form of power:
theoretical
foundations
and empirical*

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Digital
Communication
Mit
Opencourseware

*examples of
information
policy in the
U.S., an
innovator
informational
state. As the
informational
state replaces
the
bureaucratic
welfare state,*

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Communication
Mit
Opencourseware

*control over
information
creation,
processing,
flows, and use
has become the
most effective
form of power.
In Change of
State Sandra
Braman
examines the*

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Digital
Communication
Mit
Opencourseware

*theoretical
and practical
ramifications
of this*

*"change of
state." She
looks at the
ways in which
governments
are
deliberate,
explicit, and*

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Digital
Communication
Mit
Opencourseware

*consistent in
their use of
information
policy to
exercise
power,
exploring not
only such
familiar
topics as
intellectual
property*

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Digital
Communication
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Opencourseware

*rights and
privacy but
also areas in
which policy
is highly
effective but
little
understood.
Such lesser-
known issues
include hybrid
citizenship,*

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Digital
Communication
Mit
OpenCourseWare

*the use of
"functionally
equivalent
borders"
internally to
allow
exceptions to
U.S. law,
research
funding,
census
methods, and*

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Communication
Mit
Opencourseware

*network interc
onnection.
Trends in
information
policy, argues
Braman, both
manifest and
trigger change
in the nature
of governance
itself. After
laying the*

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Digital
Communication
Mit
OpenCourseWare

*theoretical,
conceptual,
and historical
foundations
for
understanding
the
informational
state, Braman
examines 20
information
policy*

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Digital
Communication
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*principles
found in the
U.S
Constitution.
She then
explores the
effects of
U.S.
information
policy on the
identity,
structure,*

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Communication
Mit
Opencourseware

*borders, and
change
processes of
the state
itself and on
the
individuals,
communities,
and
organizations
that make up
the state.*

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Digital

*Looking across
the breadth of
the legal
system, she
presents
current law as
well as trends
in and
consequences
of several
information
policy issues*

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Digital
Communication
Mit
Opencourseware

*in each
category
affected.
Change of
State
introduces
information
policy on two
levels,
coupling
discussions of
specific*

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Digital
Communication
Mit
Opencourseware

*contemporary
problems with
more abstract
analysis*

*drawing on
social theory
and empirical
research as
well as law.*

*Most
important, the
book provides*

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Digital
Communication
Mit
Opencourseware

*a way of
understanding
how
information
policy brings
about the
fundamental
social changes
that come with
the
transformation
to the*

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Digital
*informational
state.*
Principles of
Digital
Communication
and Coding
Principles Of
Digital
Communication
System &
Computer
Network

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Communication
Scholarship in
the Digital
Age

The Power of
Talk in a
Digital Age
The Case for
Open Access to
Research and
Scholarship

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In Wireless
Communications:
Signal
Processing
OpenStaxware
Perspectives,
leaders in the
field describe
state-of-the-art
research in
applying signal
processing
methodologies in
the context of
tomorrow's most

Read Free
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Digital
important
wireless communication
applications,
ranging from
next-generation
cellular
telephony and
personal
communication
services, to
nomadic
computing and
wireless
multimedia.

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Digital
Wireless
Communications:
Signal
Processing
OpenStaxware

Perspectives is
a valuable
reference both
for signal
processing
specialists
seeking to apply
their expertise
in the rapidly
growing wireless

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Digital
communications
field, and for
communications
specialists
eager to exploit
signal
processing
techniques and
implementations
in developing
efficient
wireless systems
of the future.
"A clear and

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Digital
Communication
Machine
intelligence,
big data and the
sharing economy.
But McAfee and
Brynjolfsson
also wisely
acknowledge the
limitations of
their futurology
and avoid over-s
implification."

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Digital
—Financial Times
In The Second
Machine Age,
Andrew McAfee
and Erik
Brynjolfsson
predicted some
of the far-
reaching effects
of digital
technologies on
our lives and
businesses. Now
they've written

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Digital
Communication
Mix
OpenCourseware

a guide to help
readers make the
most of our
collective
future. Machine
| Platform |
Crowd outlines
the
opportunities
and challenges
inherent in the
science fiction
technologies
that have come

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Digital
to life in
Communication
recent years,
like self-
driving cars and
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3D printers,
online platforms
for renting
outfits and
scheduling
workouts, or
crowd-sourced
medical research
and financial
instruments.

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An accessible
undergraduate
textbook
introducing key
fundamental
principles
behind modern
communication
systems,
supported by
exercises,
software
problems and lab
exercises.

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Master the basic concepts and methodologies of digital signal processing with this systematic introduction, without the need for an extensive mathematical background. The authors lead the reader through the fundamental

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Communication
MIT
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mathematical
principles
underlying the
operation of key
signal
processing
techniques,
providing simple
arguments and
cases rather
than detailed
general proofs.
Coverage of
practical

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Digital
Communication
MIT
OpenCourseWare

implementation,
discussion of
the limitations
of particular
methods and
plentiful MATLAB
illustrations
allow readers to
better connect
theory and
practice. A
focus on
algorithms that
are of

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Digital
theoretical
importance or
useful in real-
world
applications
ensures that
students cover
material
relevant to
engineering
practice, and
equips students
and
practitioners

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Communication
Mix
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alike with the basic principles necessary to apply DSP techniques to a variety of applications. Chapters include worked examples, problems and computer experiments, helping students to absorb the

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material they
have just read.

Lecture slides
for all figures
and solutions to
the numerous
problems are
available to
instructors.

This book uses a
practical
approach in the
application of
theoretical

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Communication
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concepts to
digital
communications
in the design of
software defined
radio modems.

This book
discusses the
design,
implementation
and performance
verification of
waveforms and
algorithms

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Communication
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appropriate for
digital data
modulation and
demodulation in
modern
communication
systems. Using a
building-block
approach, the
author provides
an introductory
to the advanced
understanding of
acquisition and

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Communication
MIT
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data detection
using source and
executable
simulation code
to validate the
communication
system
performance with
respect to
theory and
design
specifications.
The author
focuses on

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Digital
theoretical
analysis,
algorithm
design, firmware
and software
designs and
subsystem and
system testing.
This book treats
system designs
with a variety
of channel
characteristics
from very low to

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This book offers
system analysis
and subsystem
implementation
options for
acquisition and
data detection
appropriate to
the channel
conditions and
system
specifications,

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Communication
MIT
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and provides
test methods for
demonstrating
system
performance.

This book also:

Outlines

fundamental

system

requirements and

related analysis

that must be

established

prior to a

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detailed
subsystem design
Includes many
examples that
highlight
various
analytical
solutions and
case studies
that
characterize
various system
performance
measures

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Discusses
various aspects
of atmospheric
propagation
using the
spherical 4/3
effective earth
radius model
Examines
Ionospheric
propagation and
uses the
Rayleigh fading
channel to

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Digital
Communication
using several
robust waveform
modulations

Contains end-of-
chapter
problems,
allowing the
reader to
further engage
with the text

Digital
Communications

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Digital
with Emphasis on
Data Modems is a
great resource
for communicatio
n-system and
digital signal
processing
engineers and
students looking
for in-depth
theory as well
as practical
implementations.

Alone Together

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Digital Media
Revisited
Information,
Infrastructure,
and the Internet
Thinking
Critically in a
Data-Driven
Society
Digital
Communications
with Emphasis on
Data Modems
Reinventing

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Digital
Democracy in the
Age of Communication
Intelligent
Machines
OpenCourseware

This intuitive yet
rigorous
introduction
derives the core
results of digital
communication
from first
principles.

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Communication
Mit
Opencourseware

Theory, rather than industry standards, motivates the engineering approaches, and key results are stated with all the required assumptions.

The book emphasizes the

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geometric view,
opening with the
inner product,
the matched
filter for its
computation,
Parseval's
theorem, the
sampling
theorem as an
orthonormal
expansion, the

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Digital
isometry
Communication
between
Mit
passband signals
Opencourseware
and their
baseband
representation,
and the spectral-
efficiency
optimality of
quadrature
amplitude
modulation

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Digital
(QAM).
Communication
Subsequent
Mit
chapters address
Opencourseware
noise, hypothesis
testing, Gaussian
stochastic
processes, and
the sufficiency of
the matched
filter outputs.
Uniquely, there
is a treatment of

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Digital
white noise
Communication
without
Mit
generalized
Opencourseware
functions, and of
the power
spectral density
without artificial
random jitters
and random
phases in the
analysis of QAM.
This systematic

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Mit
Opencourseware

and insightful
book, with over
300 exercises, is
ideal for
graduate courses
in digital
communication,
and for anyone
asking 'why' and
not just 'how'.
This volume is
designed to

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develop an understanding of data networks and evolving integrated networks, and to explore evolving integrated networks and the various analysis and design tools. It begins with an

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overview of the principles behind data networks, then develops an understanding of the modelling issues and mathematical analysis needed to compare the effectiveness of different

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Digital
networks.

This is a concise presentation of the concepts underlying the design of digital communication systems, without the detail that can overwhelm students. Many examples, from

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the basic to the
cutting-edge,
show how the
theory is used in
the design of
modern systems
and the
relevance of this
theory will
motivate
students. The
theory is

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supported by
practical
algorithms so
that the student
can perform
computations and
simulations.

Leading edge
topics in coding
and wireless
communication
make this an

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Mit
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ideal text for
students taking
just one course
on the subject.

Fundamentals of
Digital
Communications
has coverage of
turbo and LDPC
codes in
sufficient detail
and clarity to

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Digital
Communication
Mit
OpenCourseware

enable hands-on
implementation
and performance
evaluation, as
well as 'just
enough'
information
theory to enable
computation of
performance
benchmarks to
compare them

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against. Other
unique features
include space-
time

communication
and geometric
insights into
noncoherent
communication
and equalization.
An exploration of
how design

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Mit
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might be led by
marginalized
communities,
dismantle
structural
inequality, and
advance
collective
liberation and
ecological
survival. What is
the relationship

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Digital

Communication
Mit
OpenCourseWare

between design,
power, and social
justice? “ Design
justice ” is an
approach to
design that is led
by marginalized
communities and
that aims
explicitly to
challenge, rather
than reproduce,

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Digital
Communication
Mit
Opencourseware

structural
inequalities. It
has emerged
from a growing
community of
designers in
various fields
who work
closely with
social
movements and
community-

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Principles Of
Digital
based
Communication
organizations
Mit
around the
Opencourseware
world. This book
explores the
theory and
practice of
design justice,
demonstrates
how universalist
design principles
and practices

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Communication
Mit
Opencourseware

erase certain
groups of people
—specifically,
those who are
intersectionally
disadvantaged or
multiply
burdened under
the matrix of
domination
(white
supremacist

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Communication
Mit
Opencourseware

heteropatriarchy,
ableism,
capitalism, and
settler

colonialism)—and
invites readers
to “ build a better
world, a world
where many
worlds fit; linked
worlds of
collective

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Communication
Mit
Opencourseware

liberation and ecological sustainability. ”
Along the way, the book documents a multitude of real-world community-led design practices, each grounded in a particular social

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Digital
movement.
Communication
Design Justice
Mit
goes beyond
Opencourseware
recent calls for
design for good,
user-centered
design, and
employment
diversity in the
technology and
design
professions; it

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Communication
Mit
OpenCourseware

connects design
to larger
struggles for
collective
liberation and
ecological
survival.

A
Comprehensive
coverage of
Digital
communication,

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Digital
Data
Communication
Mit
Opencourseware
Protocols and
Mobile Computin
gCovers:"
Multiplexing &
Multiple
accesses" Radio
Communications-
Terrestrial &
Satellite" Error
Detection &

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Digital
Correction" ISO/
Communication
OSI Protocol
Mit
Architecture"
Opencourseware
Wired Internet
DNS, RADIUS,
Firewalls, VPN"
Cellular Mobile
Communication"
GPS, CTI,
Wireless
Internet"
Multimedia

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Digital
Communication
over IP
Mit
Networks
Opencourseware
Cyber Republic
Theoretical and
Conceptual
Innovations in
Digital Domains
A Pattern
Language for
Communication
Revolution

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Digital
Cybernetics or
Communication
Control and
Mit
Communication
Opencourseware
in the Animal and
the Machine,
Reissue of the
1961 second
edition
Introduction to
Communication
Systems
Principles of

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Digital
Interaction
Communication
Design as a
Mit
Cultural Practice
Opencourseware
A new framework
that shows how
to derive the
meaning of an
utterance from
first principles by
modeling it as a
system of
interdependent

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Digital
games. In
Communication
Language and
Mit
Equilibrium,
Opencourseware
Prashant Parikh
offers a new
account of
meaning for
natural language.
He argues that
equilibrium, or
balance among
multiple

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Digital
interacting
Communication
forces, is a key
Mit
attribute of
OpenCourseWare
language and
meaning and
shows how to
derive the
meaning of an
utterance from
first principles by
modeling it as a
system of

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Mit
Opencourseware

interdependent games. His account results in a novel view of semantics and pragmatics and describes how both may be integrated with syntax. It considers many aspects of meani

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Mit
Opencourseware

ng—including
literal meaning
and
implicature—and
advances a
detailed theory of
definite
descriptions as
an application of
the framework.
Language and
Equilibrium is

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Communication
Mit
Opencourseware

intended for a
wide readership
in the cognitive
sciences,
including
philosophers,
linguists, and
artificial
intelligence
researchers as
well as
neuroscientists,

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psychologists,
and economists
interested in
language and
communication.
This textbook
takes a unified
view of the
fundamentals of
wireless
communication
and explains

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Communication
Mit
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cutting-edge
concepts in a
simple and
intuitive way. An
abundant supply
of exercises
make it ideal for
graduate courses
in electrical and
computer
engineering and
it will also be of

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Digital

great interest to
practising
engineers.

The renowned
communications
theorist Robert
Gallager brings
his lucid writing
style to the study
of the
fundamental
system aspects

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Communication
Mit
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of digital
communication
for a one-
semester course
for graduate
students. With
the clarity and
insight that have
characterized his
teaching and
earlier textbooks,
he develops a

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Digital

simple framework
and then

combines this
with careful

proofs to help the
reader

understand

modern systems

and simplified

models in an

intuitive yet

precise way. A

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Communication
Mit
Opencourseware

strong narrative
and links
between theory
and practice
reinforce this
concise, practical
presentation. The
book begins with
data
compression for
arbitrary sources.
Gallager then

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Digital
Communication
Mit
OpenCourseware

describes how to modulate the resulting binary data for transmission over wires, cables, optical fibers, and wireless channels. Analysis and intuitive

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Mit
Opencourseware

interpretations
are developed for
channel noise
models, followed
by coverage of
the principles of
detection,
coding, and
decoding. The
various concepts
covered are
brought together

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Communication
Mit
Opencourseware

in a description
of wireless
communication,
using CDMA as a
case study.

This book
provides a
cohesive
introduction to
much of the vast
body of
knowledge

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Communication
Mit
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central to the
problems of
communication
engineering.

Introduction to
Digital
Communications
explores the
basic principles
in the analysis
and design of
digital

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Digital
Communication
systems,
including design
objectives,

constraints and
trade-offs. After
portraying the big
picture and
laying the
background
material, this
book lucidly

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Communication
Mit
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progresses to a comprehensive and detailed discussion of all critical elements and key functions in digital communications. The first undergraduate-level textbook exclusively on

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Digital
digital
Communication,
communications,
Mit
with a complete
OpenCourseWare
coverage of
source and
channel coding,
modulation, and
synchronization.
Discusses major
aspects of
communication
networks and

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Digital
multiuser
Communication
communications
Mit
Provides
Opencourseware
insightful
descriptions and
intuitive
explanations of
all complex
concepts
Focuses on
practical
applications and

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Digital
Communication
Mit
OpenCourseware

illustrative
examples. A
companion Web
site includes
solutions to end-
of-chapter
problems and
computer
exercises, lecture
slides, and
figures and
tables from the

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Digital
text
Communication
Human Rights in
Mit
the Age of
OpenCourseWare
Platforms
Why We Expect
More from
Technology and
Less from Each
Other
Community-Led
Practices to Build
the Worlds We

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Digital
Need
Communication
Signal
Processing
Opencourseware
Perspectives
Information,
Policy, and
Power
Theory, Analysis,
Design,
Simulation,
Testing, and
Applications

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Digital

*“In a time in which
the ways we
communicate and
connect are*

*constantly
changing, and not
always for the
better, Sherry
Turkle provides a
much needed voice
of caution and
reason to help*

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Communication,
Mit
OpenCourseWare

*explain what the
f*** is going on.”*
—Aziz Ansari,
author of *Modern
Romance Renowned
media scholar
Sherry Turkle
investigates how a
flight from
conversation
undermines our
relationships,*

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Digital
*creativity, and
productivity—and
why reclaiming face-
to-face conversation
can help us regain
lost ground. We live
in a technological
universe in which
we are always
communicating.
And yet we have
sacrificed*

Read Free
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Digital
*conversation for
mere connection.*

*Preeminent author
and researcher*

*Sherry Turkle has
been studying
digital culture for
over thirty years.*

*Long an enthusiast
for its possibilities,
here she investigates
a troubling*

Read Free
Principles Of
Digital
*consequence: at
work, at home, in
politics, and in love,
we find ways
around
conversation,
tempted by the
possibilities of a text
or an email in
which we don't
have to look, listen,
or reveal ourselves.*

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Digital
Communication
Mit
OpenCourseWare

*We develop a taste
for what mere
connection offers.
The dinner table
falls silent as
children compete
with phones for
their parents'
attention. Friends
learn strategies to
keep conversations
going when only a*

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Digital
Communication
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*few people are
looking up from
their phones. At
work, we retreat to
our screens
although it is
conversation at the
water cooler that
increases not only
productivity but
commitment to
work. Online, we*

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*only want to share
opinions that our
followers will agree
with – a politics that
shies away from the
real conflicts and
solutions of the
public square. The
case for
conversation begins
with the necessary
conversations of*

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*solitude and self-
reflection. They are
endangered: these
days, always
connected, we see
loneliness as a
problem that
technology should
solve. Afraid of
being alone, we rely
on other people to
give us a sense of*

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Digital
*ourselves, and our
capacity for
empathy and
relationship suffers.*

*We see the costs of
the flight from
conversation
everywhere:
conversation is the
cornerstone for
democracy and in
business it is good*

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*for the bottom line.
In the private
sphere, it builds
empathy, friendship,
love, learning, and
productivity. But
there is good news:
we are resilient.
Conversation cures.
Based on five years
of research and
interviews in homes,*

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*schools, and the
workplace, Turkle
argues that we have
come to a better
understanding of
where our
technology can and
cannot take us and
that the time is right
to reclaim
conversation. The
most human—and*

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*humanizing—thing
that we do. The
virtues of person-to-
person conversation
are timeless, and
our most basic
technology, talk,
responds to our
modern challenges.
We have everything
we need to start, we
have each other.*

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Principles Of

*Turkle's latest book,
The Empathy
Diaries (3/2/21) is
available now.*

*This title gives
students an
integrated and
rigorous picture of
applied computer
science, as it comes
to play in the
construction of a*

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Digital
*simple yet powerful
communication
computer system.*

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*Principles of Digital
Communication
Cambridge University
Press*

*A new framework
for understanding
computing: a
coherent set of
principles spanning
technologies,*

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Digital
domains,
Communication
algorithms,
Mit
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architectures, and
designs. Computing
is usually viewed as
a technology field
that advances at the
breakneck speed of
Moore's Law. If we
turn away even for a
moment, we might
miss a game-

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Digital
*changing
technological
breakthrough or an
earthshaking
theoretical
development. This
book takes a
different
perspective,
presenting
computing as a
science governed by*

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Communication
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*fundamental
principles that span
all technologies.
Computer science is
a science of
information
processes. We need
a new language to
describe the science,
and in this book
Peter Denning and
Craig Martell offer*

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*the great principles
framework as just
such a language.
This is a book about
the whole of
computing—its
algorithms,
architectures, and
designs. Denning
and Martell divide
the great principles
of computing into*

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six categories:
Communication,
Mit
computation,
Opencourseware
coordination,

*recollection,
evaluation, and
design. They begin
with an introduction
to computing, its
history, its many
interactions with
other fields, its*

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Digital

*domains of practice,
and the structure of
the great principles
framework. They go
on to examine the
great principles in
different areas:
information,
machines,
programming,
computation,
memory,*

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Digital
*parallelism,
queueing, and
design. Finally, they
apply the great
principles to
networking, the
Internet in
particular. Great
Principles of
Computing will be
essential reading for
professionals in*

Read Free
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Digital
*science and
Communication
engineering fields
Mit
with a
Opencourseware
“computational”
branch, for
practitioners in
computing who
want overviews of
less familiar areas
of computer science,
and for non-
computer science*

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*majors who want an
accessible entry way
to the field.*

*A guide to
principles and
methods for the
management,
archiving, sharing,
and citing of
linguistic research
data, especially
digital data. "Doing*

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Communication
Mit
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language science"
depends on
collecting,
transcribing,
annotating,
analyzing, storing,
and sharing
linguistic research
data. This volume
offers a guide to
linguistic data
management,

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*engaging with
current trends
toward the
transformation of
linguistics into a
more data-driven
and reproducible
scientific endeavor.*

*It offers both
principles and
methods, presenting
the conceptual*

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Communication
Mit
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*foundations of
linguistic data
management and a
series of case
studies, each of
which demonstrates
a concrete
application of
abstract principles
in a current
practice. In part 1,
contributors bring*

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*together knowledge
from information
science, archiving,
and data*

*stewardship relevant
to linguistic data
management.*

*Topics covered
include
implementation
principles, archiving
data, finding and*

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*using datasets, and
the valuation of
time and effort
involved in data
management. Part 2
presents snapshots
of practices across
various subfields,
with each chapter
presenting a unique
data management
project with*

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*generalizable
guidance for
researchers. The
Open Handbook of
Linguistic Data
Management is an
essential addition to
the toolkit of every
linguist, guiding
researchers toward
making their data
FAIR: Findable,*

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***Accessible,
Communication,
Interoperable, and
Mit
Reusable.***
***Circuits, Signals,
Opencourseware
and Systems***
***Machine, Platform,
Crowd: Harnessing
Our Digital Future***
***Global Health
Informatics***
***The Open
Handbook of***

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Digital
*Linguistic Data
Management
The Science of
Managing Our
Digital Stuff
Building Successful
Online
Communities*

Written by two
distinguished
experts in the field
of digital

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communications,
Communication
this classic text
Mit
remains a vital
Opencourseware
resource three
decades after its
initial publication.
Its treatment is
geared toward
advanced students
of communications
theory and to
designers of

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Communication
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channels, links,
terminals,
modems, or
networks used to
transmit and
receive digital
messages. The
three-part
approach begins
with the
fundamentals of
digital

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Digital
communication
Communication
and block coding,
Mit
including an
Opencourseware
analysis of block
code ensemble
performance. The
second part
introduces
convolutional
coding, exploring
ensemble
performance and

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sequential
decoding. The final
section addresses
source coding and
rate distortion
theory, examining
fundamental
concepts for
memoryless
sources as well as
precepts related to
memory, Gaussian

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Digital
sources, and
Communication
universal coding.
Mit
Appendixes of
Opencourseware
useful information
appear throughout
the text, and each
chapter concludes
with a set of
problems, the
solutions to which
are available
online.

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Key concepts,
frameworks,
examples, and
lessons learned in
designing and
implementing
health information
and
communication
technology
systems in the
developing world.

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The widespread usage of mobile phones that bring computational power and data to our fingertips has enabled new models for tracking and battling disease. The developing world in particular has

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become a proving
ground for
innovation in
eHealth (using
communication
and technology
tools in healthcare)
and mHealth
(using the
affordances of
mobile technology
in eHealth

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systems). In this book, experts from a variety of disciplines—among them computer science, medicine, public health, policy, and business—discuss key concepts, frameworks, examples, and

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lessons learned in
designing and
implementing
digital health
systems in the
developing world.
The contributors
consider such
topics as global
health disparities
and quality of care;
aligning eHealth

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strategies with
government policy;
the role of
monitoring and
evaluation in
improving care;
databases, patient
registries, and
electronic health
records; the
lifecycle of a digital
health system

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project; software
project
management;
privacy and
security; and
evaluating health
technology
systems.

A foundational text
offering a unified
design vocabulary
and a common

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methodology for
Communication
maximizing the
Mit
expressive power
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of digital artifacts.

Digital artifacts
from iPads to
databases
pervade our lives,
and the design
decisions that
shape them affect
how we think, act,

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communicate, and understand the world. But the pace of change has been so rapid that technical innovation is outstripping design. Interactors are often mystified and frustrated by their enticing but

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confusing new
devices;
meanwhile,
product design
teams struggle to
articulate shared
and enduring
design goals. With
Inventing the
Medium, Janet
Murray provides a
unified vocabulary

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and a common methodology for the design of digital objects and environments. It will be an essential guide for both students and practitioners in this evolving field. Murray explains that innovative

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interaction
Communication
designers should
Mit
think of all objects
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made with
bits—whether
games or Web
pages, robots or
the latest killer
apps—as
belonging to a
single new
medium: the digital

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medium.
Communication
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Designers can
speed the process
of useful and
lasting innovation
by focusing on the
collective cultural
task of inventing
this new medium.
Exploring
strategies for
maximizing the

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expressive power
of digital artifacts,
Murray identifies
and examines four
representational
affordances of
digital
environments that
provide the core
palette for
designers across
applications:

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Digital
computational
Communication
procedures, user
Mit
participation,
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navigable space,
and encyclopedic
capacity. Each
chapter includes a
set of Design Expl
orations—creative
exercises for
students and
thought

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Digital

experiments for
practitioners—that
allow readers to
apply the ideas in
the chapter to
particular design
problems.

Inventing the
Medium also
provides more
than 200
illustrations of

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Communication
Mit
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specific design
strategies drawn
from multiple
genres and

platforms and a
glossary of design
concepts.

Why we organize
our personal digital
data the way we
do and how design
of new PIM

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systems can help us manage our information more efficiently. Each of us has an ever-growing collection of personal digital data: documents, photographs, PowerPoint presentations, videos, music,

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emails and texts sent and received. To access any of this, we have to find it. The ease (or difficulty) of finding something depends on how we organize our digital stuff. In this book, personal information

Read Free
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Digital
management
Communication
(PIM) experts Ofer
Mit
Bergman and
Opencourseware
Steve Whittaker
explain why we
organize our
personal digital
data the way we
do and how the
design of new PIM
systems can help
us manage our

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collections more efficiently.

Bergman and Whittaker report that many of us use hierarchical folders for our personal digital organizing. Critics of this method point out that information is

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hidden from sight
in folders that are
often within other
folders so that we
have to remember
the exact location
of information to
access it. Because
of this, information
scientists suggest
other methods:
search, more

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flexible than
navigating folders;
tags, which allow
multiple

categorizations;
and group
information
management. Yet
Bergman and
Whittaker have
found in their
pioneering PIM

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research that
these other
methods that work
best for public
information
management don't
work as well for
personal
information
management.
Bergman and
Whittaker describe

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Digital
personal
Communication
information
Mit
collection as
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curation: we
preserve and
organize this data
to ensure our
future access to it.
Unlike other
information
management
fields, in PIM the

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Mit
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same user organizes and retrieves the information. After explaining the cognitive and psychological reasons that so many prefer folders, Bergman and Whittaker propose the user-

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subjective
approach to PIM,
which does not
replace folder
hierarchies but
exploits these
unique
characteristics of
PIM.

How to analyze
data settings
rather than data

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sets,
Communication
Mit
Opencourseware
acknowledging the
meaning-making
power of the local.
In our data-driven
society, it is too
easy to assume
the transparency
of data. Instead,
Yanni Loukissas
argues in All Data
Are Local, we

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should approach
data sets with an
awareness that
data are created
by humans and
their dutiful
machines, at a
time, in a place,
with the
instruments at
hand, for
audiences that are

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conditioned to receive them. The term data set implies something discrete, complete, and portable, but it is none of those things. Examining a series of data sources important for understanding the state of public

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life in the United States—Harvard's Arnold Arboretum, the Digital Public Library of America, UCLA's Television News Archive, and the real estate marketplace Zillow—Loukissas shows us how to analyze data

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settings rather than data sets.

Loukissas sets out six principles: all data are local; data have complex attachments to place; data are collected from heterogeneous sources; data and algorithms are

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inextricably
entangled;
interfaces
recontextualize
data; and data are
indexes to local
knowledge. He
then provides a set
of practical
guidelines to
follow. To make
his argument,

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Loukissas employs a combination of qualitative research on data cultures and exploratory data visualizations.

Rebutting the “myth of digital universalism,”

Loukissas reminds us of the meaning-

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making power of
Communication
the local.
Mit
Liberating Voices
Opencourseware
Evidence-Based
Social Design
The Elements of
Computing
Systems
Inventing the
Medium
A Foundation in
Digital

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Communication
Communication

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A concise
introduction to
the emerging
field of data
science,
explaining its
evolution,
relation to
machine
learning,

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current uses,
data
infrastructure
issues, and
ethical
challenges. The
goal of data
science is to
improve
decision making
through the
analysis of
data. Today

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data science
Communication
determines the
Mit
ads we see
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online, the
books and
movies that are
recommended to
us online,
which emails
are filtered
into our spam
folders, and
even how much

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we pay for
health
insurance. This
volume in the
MIT Press
Essential
Knowledge
series offers a
concise
introduction to
the emerging
field of data
science,

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explaining its evolution, current uses, data infrastructure issues, and ethical challenges. It has never been easier for organizations to gather, store, and

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process data.
Use of data
science is
driven by the
rise of big
data and social
media, the
development of
high-
performance
computing, and
the emergence
of such

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Digital
powerful
Communication
methods for
Mit
data analysis
and modeling as
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deep learning.
Data science
encompasses a
set of
principles,
problem
definitions,
algorithms, and
processes for

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extracting non-obvious and useful patterns from large datasets. It is closely related to the fields of data mining and machine learning, but broader in scope. This book offers a

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brief history
of the field,
introduces
fundamental
data concepts,
and describes
the stages in a
data science
project. It
considers data
infrastructure
and the
challenges

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posed by
integrating
data from
multiple
sources,
introduces the
basics of
machine
learning, and
discusses how
to link machine
learning
expertise with

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real-world
Communication
problems. The
Mit
book also
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reviews ethical
and legal
issues,
developments in
data
regulation, and
computational
approaches to
preserving
privacy.

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Finally, it considers the future impact of data science and offers principles for success in data science projects.

Great

Principles of
Computing
Fundamentals of

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Communication
The Access
Principle
Data Science
Design Justice
Architecture's
New Media