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Hermann Weyl
(1885-1955) was
one of the twentieth
century's most
important
mathematicians, as
well as a seminal
figure in the
development of

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quantum physics
and general
relativity. He was
also an eloquent
writer with a lifelong
interest in the
philosophical
implications of the
startling new
scientific
developments with
which he was so
involved. Mind and

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Nature is a collection of Weyl's most important general writings on philosophy, mathematics, and physics, including pieces that have never before been published in any language or translated into English, or that have

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long been out of print. Complete with Peter Pesic's introduction, notes, and bibliography, these writings reveal an unjustly neglected dimension of a complex and fascinating thinker. In addition, the book includes more than

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twenty photographs of Weyl and his family and colleagues, many of which are previously unpublished.

Included here are Weyl's exposition of his important synthesis of electromagnetism and gravitation, which Einstein at

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first hailed as "a first-class stroke of genius"; two little-known letters by Weyl and Einstein from 1922 that give their contrasting views on the philosophical implications of modern physics; and an essay on time that contains

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Weyl's argument that the past is never completed and the present is not a point. Also included are two book-length series of lectures, *The Open World* (1932) and *Mind and Nature* (1934), each a masterly exposition of Weyl's

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views on a range of topics from modern physics and mathematics.

Finally, four retrospective essays from Weyl's last decade give his final thoughts on the interrelations among mathematics, philosophy, and physics, intertwined

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with reflections on
the course of his
rich life.

Computational
science is an
exciting new field at
the intersection of
the sciences,
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scientific
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involves computing as well as theory and experiment.

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tutorials and files in
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features two new
chapters on agent-
based simulations
and modeling with
matrices, ten new
project modules,

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package is available
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author of Blink and
The Tipping Point,
Malcolm Gladwell's
Outliers: The Story
of Success
overturns
conventional
wisdom about

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genius to show us what makes an ordinary person an extreme overachiever. Why do some people achieve so much more than others? Can they lie so far out of the ordinary? In this provocative and inspiring book, Malcolm Gladwell

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looks at everyone from rock stars to professional athletes, software billionaires to scientific geniuses, to show that the story of success is far more surprising, and far more fascinating, than we could ever have imagined. He

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reveals that it's as much about where we're from and what we do, as who we are - and that no one, not even a genius, ever makes it alone. Outliers will change the way you think about your own life story, and about what makes us all unique.

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adventure' Observer
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of writer - the kind
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every answer 10
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optional ACT essay
portion Scoring
Worksheets to help
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Policy Analysis and
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Ever since its original publication in Germany in 1938, Max Schweidler's Die Instandsetzung von Kupferstichen, Zeichnungen, Buchern usw. has been recognized as a seminal modern text on the

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conservation and restoration of works on paper. This volume, based on the authoritative revised German edition of 1950, makes Schweidler's work available in English for the first time, in a meticulously edited and annotated

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An extensively
illustrated appendix
presents case
studies of eleven
Old Master prints
that were treated
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discusses.
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provides a
comprehensive ten-
step model that will
help guide
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practitioners
through the

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process of
designing and
building a results-
based monitoring
and evaluation
system.

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superintendence of
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probability theory in

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a mathematically
rigorous, yet
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textbook explains
important concepts
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providing useful
exercises and
examples of real
world applications
for students to

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consider. This edition demonstrates the applicability of probability to many human activities with examples and illustrations. After introducing fundamental probability concepts, the book proceeds to topics including

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conditional
probability and
independence;
numerical
characteristics of a
random variable;
special distributions;
joint probability
density function of
two random
variables and
related quantities;
joint moment

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generating function,
covariance and
correlation
coefficient of two
random variables;
transformation of
random variables;
the Weak Law of
Large Numbers; the
Central Limit
Theorem; and
statistical inference.
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provides relevant proofs, followed by exercises and useful hints. Answers to even-numbered exercises are given and detailed answers to all exercises are available to instructors on the book companion site. This book will

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be of interest to
upper level
undergraduate
students and
graduate level
students in
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mathematics,
engineering,
computer science,
operations research,
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economics, physics,
and some of the
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probability theory in
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mathematician uses
humor and
anecdote to
illuminate the
concepts of groups,
sets, subsets,
topology, Boolean
algebra, and other
mathematical
subjects. 200
illustrations.
Principal component

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analysis is probably the oldest and best known of the It was first introduced by Pearson (1901), techniques of multivariate analysis. and developed independently by Hotelling (1933). Like many multivariate

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methods, it was not widely used until the advent of electronic computers, but it is now well entrenched in virtually every statistical computer package. The central idea of principal component analysis is to reduce the dimensionality

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of a data set in which there are a large number of interrelated variables, while retaining as much as possible of the variation present in the data set. This reduction is achieved by transforming to a new set of variables,

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the principal components, which are uncorrelated, and which are ordered so that the first few retain most of the variation present in all of the original variables. Computation of the principal components reduces to the

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solution of an eigen value-eigenvector problem for a positive-semidefinite symmetric matrix. Thus, the definition and computation of principal components are straightforward but, as will be seen, this apparently simple technique has a

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wide variety of different applications, as well as a number of different derivations. Any feelings that principal component analysis is a narrow subject should soon be dispelled by the present book; indeed some quite

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broad topics which are related to principal component analysis receive no more than a brief mention in the final two chapters.

Primary and
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Education During
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Semantics-Oriented
Natural Language

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The Cybernetics
Moment
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Problems
Involved
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Educational
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edition, Basic
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questions.

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 systems.

Following the war,

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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

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technology,
examines the
intellectual and
cultural history of
cybernetics and
information theory,
whose language of
"information,"
"feedback," and
"control"
transformed the
idiom of the

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sciences, hastened the development of information technologies, and laid the conceptual foundation for what we now call the Information Age. Kline argues that, for about twenty years after 1950, the growth of

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cybernetics and information theory and ever-more-powerful computers produced a utopian information narrative—an enthusiasm for information science that influenced natural scientists, social scientists,

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engineers,
humanists,
policymakers, public
intellectuals, and
journalists, all of
whom struggled to
come to grips with
new relationships
between humans and
intelligent machines.
Kline traces the
relationship between

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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

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McCulloch,
Margaret Mead,
Gregory Bateson,
and Herbert Simon.
Ultimately, he
reveals the crucial
role played by the
cybernetics
moment—when
cybernetics and
information theory
were seen as

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universal
sciences—in setting
the stage for our
current
preoccupation with
information
technologies.
This graduate
textbook covers
topics in statistical
theory essential for
graduate students

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preparing for work on a Ph.D. degree in statistics. This new edition has been revised and updated and in this fourth printing, errors have been ironed out. The first chapter provides a quick overview of concepts and results in

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measure-theoretic probability theory that are useful in statistics. The second chapter introduces some fundamental concepts in statistical decision theory and inference. Subsequent chapters

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contain detailed studies on some important topics: unbiased estimation, parametric estimation, nonparametric estimation, hypothesis testing, and confidence sets. A large number of exercises in each

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chapter provide not only practice problems for students, but also many additional results.

John Dewey's Democracy and Education addresses the challenge of providing quality public education in a

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democratic society. In this classic work Dewey calls for the complete renewal of public education, arguing for the fusion of vocational and contemplative studies in education and for the necessity of universal education for the

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advancement of self and society. First published in 1916, Democracy and Education is regarded as the seminal work on public education by one of the most important scholars of the century.

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Mathematical
Control Theory
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The Classification of
Educational Goals
Rethinking
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We live in a highly connected world with multiple self-interested agents interacting and myriad opportunities for conflict and cooperation. The goal of game theory is to understand these opportunities. This book presents a rigorous

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introduction to the mathematics of game theory without losing sight of the joy of the subject. This is done by focusing on theoretical highlights (e.g., at least six Nobel Prize winning results are developed from scratch) and by

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presenting exciting connections of game theory to other fields such as computer science (algorithmic game theory), economics (auctions and matching markets), social choice (voting theory), biology (signaling and evolutionary

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stability), and learning theory. Both classical topics, such as zero-sum games, and modern topics, such as sponsored search auctions, are covered. Along the way, beautiful mathematical tools used in game theory are introduced,

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including convexity, fixed-point theorems, and probabilistic arguments. The book is appropriate for a first course in game theory at either the undergraduate or graduate level, whether in mathematics,

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economics,
computer science,
or statistics. The
importance of game-
theoretic thinking
transcends the
academic
setting—for every
action we take, we
must consider not
only its direct
effects, but also how
it influences the

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incentives of others.
This revision of
Bloom's taxonomy is
designed to help
teachers understand
and implement
standards-based
curriculums.
Cognitive
psychologists,
curriculum
specialists, teacher
educators, and

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researchers have developed a two-dimensional framework, focusing on knowledge and cognitive processes. In combination, these two define what students are expected to learn in school. It explores curriculums from three unique perspe

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ctives-cognitive
psychologists
(learning emphasis),
curriculum
specialists and
teacher educators
(C & I emphasis),
and measurement
and assessment
experts
(assessment
emphasis). This
revisited framework

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allows you to
connect learning in
all areas of
curriculum.

Educators, or others
interested in
educational
psychology or
educational
methods for grades
K-12.

A comprehensive
introduction to the

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foundations of
model checking, a
fully automated
technique for finding
flaws in hardware
and software; with
extensive examples
and both practical
and theoretical
exercises. Our
growing
dependence on
increasingly

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complex computer and software systems necessitates the development of formalisms, techniques, and tools for assessing functional properties of these systems. One such technique that has emerged in the last twenty years

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is model checking, which systematically (and automatically) checks whether a model of a given system satisfies a desired property such as deadlock freedom, invariants, and request-response properties. This automated technique for

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verification and debugging has developed into a mature and widely used approach with many applications. Principles of Model Checking offers a comprehensive introduction to model checking that is not only a text suitable for

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classroom use but also a valuable reference for researchers and practitioners in the field. The book begins with the basic principles for modeling concurrent and communicating systems, introduces different classes of properties (including

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safety and liveness), presents the notion of fairness, and provides automata-based algorithms for these properties. It introduces the temporal logics LTL and CTL, compares them, and covers algorithms for verifying these logics, discussing

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real-time systems as well as systems subject to random phenomena.

Separate chapters treat such efficiency-improving techniques as abstraction and symbolic manipulation. The book includes an extensive set of

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examples (most of which run through several chapters) and a complete set of basic results accompanied by detailed proofs.

Each chapter concludes with a summary, bibliographic notes, and an extensive list of exercises of both

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practical and
theoretical nature.
According to the
great mathematician
Paul Erdős, God
maintains perfect
mathematical proofs
in The Book. This
book presents the
authors candidates
for such "perfect
proofs," those which
contain brilliant

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ideas, clever connections, and wonderful observations, bringing new insight and surprising perspectives to problems from number theory, geometry, analysis, combinatorics, and graph theory. As a result, this book will

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be fun reading for
anyone with an
interest in
mathematics.

Proofs from THE
BOOK

Doklady

Democracy and
Education

Disruptions to
Educational

Opportunity During
a Pandemic

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Or Why We Call Our
Age the Information
Age

Game Theory, Alive
Told with P. D.

*James's
trademark*

suspense,

insightful

characterization

, and riveting

storytelling, The

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Children of Men is a story of a world with no children and no future. The human race has become infertile, and the last generation to be born is now adult.

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*Civilization
itself is
crumbling as
suicide and
despair become
commonplace.
Oxford historian
Theodore Faron,
apathetic
toward a future
without a
future, spends*

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*most of his time
reminiscing.*

*Then he is
approached by
Julian, a bright,
attractive
woman who
wants him to
help get her an
audience with
his cousin, the
powerful*

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*Warden of
England. She
and her band of
unlikely
revolutionaries
may just
awaken his
desire to live . . .
and they may
also hold the
key to survival
for the human*

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race.

*Updated in its
3rd edition,
Basic Methods
of Policy
Analysis and
Planning
presents quickly
applied methods
for analyzing
and resolving
planning and*

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policy issues at state, regional, and urban levels. Divided into two parts, Methods which presents quick methods in nine chapters and is organized around the steps in the

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*policy analysis
process, and
Cases which
presents seven
policy cases,
ranging in
degree of
complexity, the
text provides
readers with the
resources they
need for*

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*effective policy
planning and
analysis.*

*Quantitative and
qualitative
methods are
systematically
combined to
address policy
dilemmas and
urban planning
problems.*

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for Your Self
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to understand
their college
experience as a
way of
advancing their
own personal
concerns and to
draw substance
from their*

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*reading and
writing
assignments. By
enabling
students to
understand
what it is they
are being asked
to write{u2014}
from basic to
complex commu-
nications{u2014}*

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*}and how they
can go about
fulfilling those
tasks
meaningfully
and
successfully,
this book helps
students to
develop
themselves in
all the ways the*

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*university
offers. This
edition of the
book has been
adapted from
the print
edition,
published in
1997 by
Houghton
Mifflin.*

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and examples
within the text{
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been removed
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edition. --*

*Gluecklich, die
wissen, dass
hinter allen
Sprachen das*

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*Unsaegliche
steht. Those are
happy who
know that
behind all
languages there
is something
unsaid Rainer
Maria Rilke This
book shows in a
new way that a
solution to a*

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*fundamental
problem from
one scienti?c
?eld can help to
?nd the
solutions to
important
problems
emerged in
several other
?elds of science
and technology.*

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In modern science, the term "Natural Language" denotes the collection of all such languages that every language is used as a primary means of

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*communication
by people
belonging to any
country or any
region. So
Natural
Language (NL)
includes, in
particular, the
English,
Russian, and
German*

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*languages. The
applied
computer
systems
processing
natural
language
printed or
written texts
(NL-texts) or
oral speech with
respect to the*

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fact that the words are associated with some meanings are called semantics-oriented natural language processing systems (NLPSs). On one hand, this book is a

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snapshot of the current stage of a research program started many years ago and called Integral Formal Semantics (IFS) of NL. The goal of this program has been to develop the

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*formal models
and methods he-
ing to overcome
the dif?culties of
logical
character
associated with
the engineering
of semantics-
oriented NLPs.
The designers of
such systems of*

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*arbitrary kinds
will ?nd in this
book the formal
means and
algorithms
being of great
help in their
work.*

*An Introduction
to the
Philosophy of
Education,*

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*Selected
Writings on
Philosophy,
Mathematics,
and Physics
Preprints of a
Symposium,
University of
Leiden, the
Netherlands,
26-29 June
1995*

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*McGraw-Hill's
10 ACT Practice
Tests, Second
Edition
Research
Methods in
Human
Development
Writing for
College, Writing
for Your Self
Mathematical*

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Control Theory: An Introduction presents, in a mathematically precise manner, a unified introduction to deterministic control theory. In addition to classical concepts and ideas, the

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author covers the
stabilization of
nonlinear systems
using topological
methods,
realization theory
for nonlinear
systems,
impulsive control
and positive
systems, the
control of rigid

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bodies, the stabilization of infinite dimensional systems, and the solution of minimum energy problems. "Covers a remarkable number of topics....The book presents a large

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amount of
material very well,
and its use is
highly
recommended."

--Bulletin of the
AMS

Bridging the fields
of conservation,
art history, and
museum curating,
this volume

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contains the
principal papers
from an
international
symposium titled
"Historical
Painting
Techniques,
Materials, and
Studio Practice" at
the University of
Leiden in

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Amsterdam,
Netherlands, from
June 26 to 29,
1995. The sympos-
ium—designed for
art historians,
conservators,
conservation
scientists, and
museum curators
worldwide—was
organized by the

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Department of Art
History at the
University of
Leiden and the Art
History

Department of the
Central Research
Laboratory for
Objects of Art and
Science in
Amsterdam.

Twenty-five

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contributors
representing
museums and
conservation
institutions
throughout the
world provide
recent research
on historical
painting
techniques,
including wall

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painting and polychrome sculpture. Topics cover the latest art historical research and scientific analyses of original techniques and materials, as well as historical sources, such as

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medieval treatises
and descriptions
of painting
techniques in
historical
literature.

Chapters include
the painting
methods of
Rembrandt and
Vermeer, Dutch
17th-century

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landscape painting, wall paintings in English churches, Chinese paintings on paper and canvas, and Tibetan thangkas. Color plates and black-and-white photographs illustrate works

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from the Middle
Ages to the 20th
century.

Reflects
philosophy of
Model Curriculum
Guide for the
English-Language
Arts (K-8).

Early childhood
mathematics is
vitally important

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for young children's present and future educational success. Research demonstrates that virtually all young children have the capability to learn and become competent in mathematics.

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Furthermore,
young children
enjoy their early
informal
experiences with
mathematics.
Unfortunately,
many children's
potential in
mathematics is
not fully realized,
especially those

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children who are economically disadvantaged. This is due, in part, to a lack of opportunities to learn mathematics in early childhood settings or through everyday experiences in the home and in their

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communities.
Improvements in
early childhood
mathematics
education can
provide young
children with the
foundation for
school success.
Relying on a
comprehensive
review of the

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research,
Mathematics
Learning in Early
Childhood lays out
the critical areas
that should be the
focus of young
children's early
mathematics
education,
explores the
extent to which

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they are currently being incorporated in early childhood settings, and identifies the changes needed to improve the quality of mathematics experiences for young children.

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This book serves as a call to action to improve the state of early childhood mathematics. It will be especially useful for policy makers and practitioners- those who work directly with

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children and their families in shaping the policies that affect the education of young children.

Concepts of
Modern
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Principles of Model
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Doklady

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(Akademiiã Nauk
SSSR).

Earth science
sections

Introduction to
Probability

India

In this updated
edition, Cathy

Vatterott

examines the
role homework

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has played in the culture of schooling over the years; how such factors as family life, the media, and "homework gap" issues based on shifting demographics have affected

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the homework controversy; and what recent research as well as common sense tell us about the effects of homework on student learning. She also explores

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how the current
homework
debate has been
reshaped by
forces including
the Common
Core, a
pervasive media
and technology
presence, the
mass hysteria of
"achievement

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culture," and the increasing shift to standards-based and formative assessment. The best way to address the homework controversy is not to eliminate homework.

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Instead, the author urges educators to replace the old paradigm (characterized by long-standing cultural beliefs, moralistic views, and behaviorist philosophy) with

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a new paradigm
based on the
following
elements:

Designing high-
quality
homework
tasks;

Differentiating
homework
tasks;

Deemphasizing

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grading of homework; Improving homework completion; and Implementing homework support programs. Numerous examples from teachers and

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schools illustrate the new paradigm in action, and readers will find useful new tools to start them on their own journey. The end product is homework that works—for all

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students, at all levels.

This open access edited volume is a comparative effort to discern the short-term educational impact of the covid-19 pandemic on

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students,
teachers and
systems in
Brazil, Chile,
Finland, Japan,
Mexico,
Norway,
Portugal,
Russia,
Singapore,
Spain, South
Africa, the

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United Kingdom
and the United
States. One of
the first
academic
comparative
studies of the
educational
impact of the
pandemic, the
book explains
how the

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interruption of
in person
instruction and
the variable
efficacy of
alternative
forms of
education
caused learning
loss and
disengagement
with learning,

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especially for disadvantaged students. Other direct and indirect impacts of the pandemic diminished the ability of families to support children and youth in their education.

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For students, as well as for teachers and school staff, these included the economic shocks experienced by families, in some cases leading to food insecurity and

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in many more
causing stress
and anxiety and
impacting
mental health.
Opportunity to
learn was also
diminished by
the shocks and
trauma
experienced by
those with a

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close relative
infected by the
virus, and by
the constrains
on learning
resulting from
students having
to learn at
home, where
the demands of
schoolwork had
to be negotiated

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with other family necessities, often sharing limited space. Furthermore, the prolonged stress caused by the uncertainty over the resolution of the pandemic and

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resulting from
the knowledge
that anyone
could be
infected and
potentially lose
their lives,
created a
traumatic
context for
many that
undermined the

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necessary focus and dedication to schoolwork. These individual effects were reinforced by community effects, particularly for students and teachers living in communities

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where the
multifaceted
negative
impacts
resulting from
the pandemic
were pervasive.
This is an open
access book.
This series has
been developed
specifically for

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the Cambridge
International AS
& A Level
Mathematics
(9709) syllabus
to be examined
from 2020.

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& A Level
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Mathematics 1 matches the corresponding unit of the syllabus, with a clear and logical progression through. It contains materials on topics such as quadratics,

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functions,
coordinate
geometry,
circular
measure, series,
differentiation
and integration.
This coursebook
contains a
variety of
features
including recap

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sections for
students to
check their
prior
knowledge,
detailed
explanations
and worked
examples, end-
of-chapter and
cross-topic
review exercises

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and 'Explore'
tasks to
encourage
deeper thinking
around
mathematical
concepts.

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coursebook
questions are at
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Giving the
Derivations,
Pronunciations,
Definitions and
Synonyms of a
Large
Vocabulary of
the Words
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Learning,
Teaching, and
Assessing