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In Mapping the
Moving Image,
Pasi Valiaho offers
a compelling study
of how the medium

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of film came to shape our experience and thinking of the world and ourselves. By locating the moving image in new ways of seeing and saying as manifest in the arts, science and philosophy at

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the turn of the
twentieth century,
the book redefines
the cinema as one
of the most
important
anthropological
processes of
modernity. Moving
beyond the typical
understanding of
cinema based on

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optical and
linguistic models,
Mapping the

Moving Image
takes the notion of
rhythm as its cue in
conceptualizing the
medium's
morphogenetic
potentialities to
generate affectivity,
behaviour, and

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logics of sense. It provides a clear picture of how the forms of early film, while mobilizing bodily gestures and demanding intimate, affective engagement from the viewer, emerged in relation to bio-political

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investments in the body. The book also charts from a fresh perspective how the new gestural dynamics and visuality of the moving image fed into our thinking of time, memory and the unconscious. An examination of

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how the scientific study of sound sensation became increasingly intertwined with musical aesthetics in nineteenth-century Germany and Austria. In the middle of the nineteenth century, German and

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Austrian concertgoers began to hear new rhythms and harmonies as non-Western musical ensembles began to make their way to European cities and classical music introduced new compositional

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trends. At the same time, leading physicists, physiologists, and psychologists were preoccupied with understanding the sensory perception of sound from a psychophysical perspective, seeking a direct

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and measurable relationship between physical stimulation and physical sensation. These scientists incorporated specific sounds into their experiments—the musical sounds listened to by upper

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middle class,
liberal Germans
and Austrians. In
The
Psychophysical
Ear, Alexandra Hui
examines this
formative historical
moment, when the
worlds of natural
science and music
coalesced around

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the psychophysics
of sound sensation,
and new musical
aesthetics were
interwoven with
new conceptions of
sound and hearing.
Hui, a historian and
a classically trained
musician,
describes the
network of

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scientists,
musicians, music
critics,

musicologists, and
composers
involved in this
redefinition of
listening. She
identifies a source
of tension for the
psychophysicists:
the seeming

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irreconcilability
between the
idealist,
universalizing
goals of their
science and the
increasingly
undeniable
historical and
cultural
contingency of
musical aesthetics.

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The convergence of the respective projects of the psychophysical study of sound sensation and the aesthetics of music was, however, fleeting. By the beginning of the twentieth century, with the

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professionalization
of such fields as
experimental
psychology and
ethnomusicology
and the
proliferation of new
and different kinds
of music, the
aesthetic
dimension of
psychophysics

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began to
disappear.

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The mental representations of perceptual and cognitive stimuli vary on many dimensions. In addition, because of quantal fluctuations in the stimulus, spontaneous neural activity, and fluctuations in arousal and

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field in applied
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and the
mathematical aspects
are systematically
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**Nevertheless, its
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examine
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**fringe, and
unconventional
forms of
scientific
inquiry, as
well as their
cultural repres
entations, in
the Victorian
period.**

**Although now
relegated to
the category of**

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the pseudoscientific, fields like mesmerism and psychical research captured the imagination of the Victorian public.

Conversely, many branches of science now viewed as uncon

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**controversial,
such as physics
and botany,
were often
associated with
unorthodox
methods of
inquiry.**

**Whether
ultimately
incorporated
into mainstream
scientific**

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**thought or
categorized by
21st century
historians as
pseudo- or even
anti-
scientific,
these sciences
generated
conversation,
enthusiasm, and
controversy
within**

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**Victorian
society. To
date,
scholarship
addressing
Victorian
pseudoscience
tends to focus
either on a
particular
popular science
within its
social context**

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or on how
mainstream
scientific
practice
distinguished
itself from
more contested
forms. Strange
Science takes a
different
approach by
placing a range
of sciences in

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**conversation
with one
another and
examining the
similar
unconventional
methods of
inquiry adopted
by both now-
established
scientific
fields and
their**

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**marginalized
counterparts
during the
Victorian
period. In
doing so,
Strange Science
reveals the
degree to which
scientific
discourse of
this period was
radically**

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**speculative,
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**designing,
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the nature of
design, of
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knowledge, and
of technical
artifacts, as**

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well as the
toolbox of
engineers. Most
of these have
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philosophy of
science, which
has
traditionally
but
inadequately

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**In recent
years an
increasing**

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**dissatisfaction
with methods
and thinking
in psychology
as a science
can be
observed. The
discipline is
operating
under the
tension
between the**

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quantitative
and the new
qualitative me
thodologies.
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approaches
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different fields
of psychology
and education
—each of them**

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**trying to go
beyond
limitations of
the
mainstream.
These new
approaches,
however, tend
to be
“historically
blind” -
seemingly**

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**novel ideas
have actually
been common
in some period
in the history
of psychology.
Knowledge of
historical
trends in that
context
becomes
crucial**

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analysis of
historical
changes in
psychology is
informative
regarding the
potential of
“new/old and
forgotten”
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discusses
methodologica
l issues that
were more
thoroughly
understood
more than half
a century ago
than they are
now. Overall,
the**

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idea that in
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discrimination of
differences in
magnitude or intensity
between two stimulus
elements. The text
discusses the basic
principles of
discrimination,
identification, and self-
regulation of the
perception system;

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demonstrates how adaptive decision modules emerge from multiple constraints; shows how combinations of simple decisions lead to complex judgmental tasks; and synthesizes traditional approaches to perception in order to clarify the crucial and pervasive role of

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these modules in the overall activity of perceptual organization.

Psychologists, neuroscientists, molecular biologists, and physiologists will find the book invaluable.

Multidimensional Models of Perception and Cognition

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Originally published
in 1987, this title
aimed to present an
eclectic and biased

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account of the status of perception-action relationships in various fields at the time. The chapters can be divided into three sections. The first focuses on motor control, a neglected topic in the past and hence deserving the role of

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the starting point of this volume. In addition motor control provides a good background to discuss the clear sensory and perceptual effects. However, motor processes are also highly relevant to perception, which

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was usually less emphasized in the literature at the time.

Therefore a special section is devoted to motor processes in perception together with the issue of integrating information from different sources.

The book concludes

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with a section on
attention and
selection of

perceptual
information for
subsequent action.
The influential first
volume of the
Handbook of
Reading Research,
published in 1984,
was out of print for a

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number of years.

This classic work,
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effectively written
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perspectives. With
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and literacy
education.

Psychophysical
theory exists in two
distinct forms -- one
ascribes the
explanation of
phenomena and
empirical laws to
sensory processes.
Context effects
arising through the

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use of particular methods are an unwanted nuisance whose influence must be eliminated so that one isolates the "true" sensory scale. The other considers psychophysics only in terms of cognitive variables such as the

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judgment strategies induced by instructions and response biases. Sensory factors play a minor role in cognitive approaches. This work admits the validity of both forms of theory by arguing that the

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same empirical phenomena should be conceptualized in two alternative, apparently contradictory, ways. This acceptance of opposites is necessary because some empirical phenomena are best explained in terms of

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sensory processes,
while others are best
ascribed to central
causes. The
complementarity
theory stresses the
"mutually
completing" nature
of two distinct
models. The first
assigns importance
to populations of

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sensory neurons acting in the aggregate and is formulated to deal with sensory effects. The second assigns importance to judgment uncertainty and to the subject strategies induced by experimental

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procedures. This model is formulated to explain context effects. Throughout the text, the exposition is interlaced with mathematics, graphs, and computer simulations designed to reveal the

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complementary
nature of
psychophysical
explanations.

Methodological

Thinking in

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The Psychophysical

Ear

Culture and Waste

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Eye Optics
XIVth ISCERG
Symposium,
Louisville, Kentucky,
USA, 10-14 May,
1976
Waste is a key
category for

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understanding cultural value. It is not just the 'bad stuff' we dispose of; it is material we constantly struggle to redeem. Cultures seem to spend as much energy reclassifying negativity as they do on establishing the negative itself. The huge tertiary sector devoted to waste

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management converts
garbage into money,
while ecological
movements continue
to stress human values
and 'the natural.' But
the problems waste
poses are never simply
economic or
environmental. The
international
contributors to this
collection ask us to

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pause and consider the complex ways in which value is created and destroyed. Their diverse approaches of ethics, philosophy, cultural studies, and politics are at the forefront of a new field of 'ecohumanites.'

Long ago the ancestors of the

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Greeks, Romans, and Hindus were one people living on the Eurasian steppes. At the core of their religion was the "shamanic trance," a natural state but one in which consciousness achieves a profound level of inner awareness. Over the course of millennia,

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the Indo-Europeans
divided and migrated
into Europe and the
Indian subcontinent.

The knowledge of
shamanic trance
retreated from
everyday awareness
and was carried on in
the form of myths and
distilled into spiritual
practices--most
notably in the Indian

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tradition of yoga. J.
Nigro Sansonese
compares the myths of
Greece as well as
those of the Judeo-
Christian tradition
with the yogic
practices of India and
concludes that myths
are esoteric
descriptions of what
occurs within the
human body,

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especially the human nervous system, during trance. In this light, the myths provide a detailed map of the shamanic state of consciousness that is our natural heritage. This book carries on from the works of Carl Jung and Joseph Campbell to show how the portrayal of

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consciousness

embodied in myth can

be extended to a

reappraisal of the laws

of physics; before they

are descriptions of the

world, these laws--like

myths--are

descriptions of the

human nervous

system.

Image processing and

image analysis are

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typically important
fields in information
science and

technology. By
[imageprocessing], we
generally understand
all kinds of
operation performed
on images (or
sequences of images)
in order to
increase their quality,
restore their original

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content, emphasize
some particular aspect
of the information or
optimize
their transmission, or
to perform radiometric
and/or spatial analysis.
By "image analysis"
we understand,
however, all kinds
of operation performed
on images (or
sequences of images)

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in order to extract qualitative or quantitative data, perform measurements and apply statistical analysis. Whereas there are nowadays many books dealing with image processing, only a small number deal with image analysis.

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The methods and techniques involved in these fields of course have a wide range of applications in our daily world: industrial vision, material imaging, medical imaging, biological imaging, multimedia applications, satellite imaging,

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qualitycontrol, traffic
control, and so on
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editions, the main purpose of this handbook is to serve the needs of the human factors and ergonomics researchers, practitioners, and graduate students. Each chapter has a strong theory and scientific

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base, but is heavily focused on realworld applications. As such, a significant number of case studies, examples, figures, and tables are included to aid in the understanding and application

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of the material
covered.

This volume
explores the
universal
mathematical
properties
underlying big
language data
and possible
reasons why such
properties
exist, revealing
how we may be

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unconsciously
mathematical in
our language

use. These
properties are
statistical and
thus different
from linguistic
universals that
contribute to
describing the
variation of
human languages,
and they can

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only be identified over a large accumulation of usages. The book provides an overview of state-of-the art findings on these statistical universals and reconsiders the nature of

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language
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accordingly,
Volume 4
with Zipf's law
as a well-known
example. The
main focus of
the book further
lies in
explaining the
property of long
memory, which
was discovered
and studied more
recently by

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borrowing
concepts from
complex systems
theory. The
statistical
universals not
only possibly
lie as the
precursor of
language system
formation, but
they also
highlight the
qualities of

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language that
remain weak
points in
today's machine
learning. In
summary, this
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overview of
language's
global
properties. It
will be of
interest to
anyone engaged

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in fields
related to
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computing or
statistical
analysis
methods, with an
emphasis on
researchers and
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computational
linguistics and
natural language
processing.

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does apply

mathematical
concepts, all
possible effort
has been made to
speak to a non-
mathematical
audience as well
by communicating
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content
intuitively,
with concise

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provides
articles that
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psychology; the
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the concept of
the self in
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paper, On the
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controversy
which has
continued ever
since relating
to people's
subjective
judgements of
physical
reality. Why is
it that the
perception of

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sensation can
diverge so
sharply from the
magnitude of the
stimulus? How
should sensation
be measured?
Donald Laming
brings together
a diversity of
ideas and a
wealth of
experimental
evidence, and

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provides a
challenging new
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the question
which has
fragmented the
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community for
nearly 40 years.
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Investigating
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