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Calcium is a versatile carrier of signals regulating many aspects of cellular activity such as fertilization

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to create a new life and programmed cell death to end it. Calcium homeostasis is strictly controlled by channels, pumps and exchangers functioning as gates for calcium entry and release. Given that calcium is such a versatile messenger the

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field of calcium signaling is continuously and rapidly expanding. This book reviews the most recent developments in calcium signaling by leading experts in the field. It is a state-of-the-art summary of our present knowledge in this quickly

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growing field and provides insight into the impressive progress made in many areas of calcium signaling, while reminding us of how much remains to be learned.

Reflecting a rich technical and interdisciplinary exchange of ideas,

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Water and Life: The Unique Properties of H₂O focuses on the properties of water and its interaction with life. The book develops a variety of approaches that help to illuminate ways in which to address deeper questions with

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respect to the nature of the universe and our place within it. Grouped in five broad parts, this collection examines the arguments of Lawrence J. Henderson and other scholars on the "fitness" of water for life as part of the physical and

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chemical properties of nature considered as a foundational environment within which life has emerged and evolved. Leading authorities delve into a range of themes and questions that span key areas of ongoing debate and

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uncertainty. They draw from the fields of chemistry, biology, biochemistry, planetary and earth sciences, physics, astronomy, and their subspecialties. Several chapters also deal with humanistic disciplines, such as the history of science and

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theology, to provide additional perspectives. Bringing together highly esteemed researchers from multidisciplinary fields, this volume addresses fundamental questions relating to the possible role of water in the origin of life in the cosmos. It

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supports readers in their own explorations of the origin and meaning of life and the role of water in maintaining life.

New Dimensions in Women's Health, Fifth Edition, offers a practical approach to understanding

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the health of women-all races, ethnicities, socioeconomic status, cultures, and orientations. Objective and data-driven, the Fifth Edition provides solid guidance for women to optimize their well-being and prevent illness and impairment. Each

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chapter of this book
comprehensively reviews an
important dimension of a woman's
general health and examines the
contributing epidemiological,
historical, psychosocial,
cultural/ethical, legal, political, and

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economic influences. Important
Notice: The digital edition of this
book is missing some of the images
or content found in the physical
edition.

Advances in Artificial Life
The Dynamics of Desistance

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Beyond clusters

Single Molecule Dynamics in Life
Science

Demography and Health Issues

The Dynamics of Social Practice

**Yanagida (Osaka University
Graduate School of**

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Frontier Biosciences) and
Ishii (Core Research for
Evolutional Science and
Technology, Japan Science
and Technology Agency)
gather pioneers in the
field of single molecule

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science to show how to set
up and interpret a single
molecule experiment.

Following an introduction
to single molecule
measurements and
enzymology, contributors

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consider molecular motors and mechanical properties, then move on to applications. Detailed discussions of studies on protein enzymes, ribozymes, and nucleic

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acids are also included.
Some chapter topics
include imaging and
molecular motors, signal
transduction across the
plasma membrane, single-
molecule tracking of

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quantum dot liganded
epidermal growth factor,
single- molecule FRET
studies of helicases and
Holliday junctions, and
high- speed atomic force
microscopy for nano-

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visualization of
biomolecular processes.
B&w and color images and
illustrations are
included. Annotation ©2009
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OR --From booknews.com.

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Phase transition dynamics is centrally important to condensed matter physics. This 2002 book treats a wide variety of topics systematically by constructing time-

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dependent Ginzburg–Landau models for various systems in physics, metallurgy and polymer science. Beginning with a summary of advanced statistical-mechanical theories including the

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renormalization group theory, the book reviews dynamical theories, and covers the kinetics of phase ordering, spinodal decomposition and nucleation in depth. The

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phase transition dynamics
of real systems are
discussed, treating
interdisciplinary problems
in a unified manner.
Topics include
supercritical fluid

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dynamics, stress-diffusion
coupling in polymers and
mesoscopic dynamics at
structural phase
transitions in solids.
Theoretical and
experimental approaches to

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shear flow problems in
fluids are reviewed. Phase
Transition Dynamics
provides a comprehensive
account, building on the
statistical mechanics of
phase transitions covered

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in many introductory textbooks. It will be essential reading for researchers and advanced graduate students in physics, chemistry, metallurgy and polymer

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science.

It is well-established that the majority of youth offenders cease to commit crime in early adulthood, but the mechanisms behind the shift from a criminal

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to a conventional
lifestyle are not fully
understood. The Dynamics
of Desistance aims to
contribute to this nascent
area of inquiry by
providing a

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phenomenological account
of the psychosocial
processes involved in
desistance from crime.
Drawing on a variety of
methods, including in-
depth interviews with

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repeat offenders and their probation officers, police records and psychometric scores, this book charts the early stages of a journey taken by individuals who exist in

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the liminal space 'betwixt
and between' crime and
convention. A combination
of quantitative and
qualitative analysis is
used to explore the shifts
that occur in desisters'

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minds and lives as they make the often turbulent transition to a crime-free life, and the dynamic processes that occur at this psychosocial boundary are described. The

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theoretical and practical implications of the findings in this book are explored in relation to key issues in desistance literature, and as such this book provides a key

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resource for academics and students working with the area of probation, as well as practitioners in involved in probation, social work and parole supervision.

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**Phase Transition Dynamics
From Technology Adaptation
to Upgrading the Business
Model**

**Biology Dynamics of Life
Louisiana Lesson Plans
2004**

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Abstracting and
Synthesizing the
Principles of Living
Systems ; Proceedings of
the 6th German Workshop on
Artificial Life, April
14-16, 2004, Bamberg,

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Germany

Innovation, Regional

Development and the Life

Sciences

Modelling Longevity

Dynamics for Pensions and

Annuity Business

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This book studies the dynamic aspects of the Human Development Index (HDI) through a partial mobility perspective. It offers a new axiomatic structure and a set of

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**mobility indices to
discuss partial trends and
interrogate the human
development status at the
subgroup and subregional
levels. While traditional
human development theories**

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are primarily concerned with static distributions corresponding to a point in time, this book looks at an oft-neglected side of HDI and focuses on relative changes in human

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**development that may not
be captured by the
absolutist framework. In
addition, the authors also
introduce the concepts of
jump and fractional
mobility which aid in**

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**tracking the development
and stagnation among
various groups within a
population. This work
breaks fresh ground in the
study of human
development. It will be of**

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**great interest to scholars
and researchers of
economics, development
economics, political
economy, and development
practitioners.**

How do you perceive your

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cultural identity? All of us are shaped by the cultures we interact with and the cultural backgrounds and ethnicities that are part of our heritage. Take a

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**dynamic approach to the
study of culture and
health care relationships.
Dr. Marilyn A. Ray shows
us how cultures influence
one another through inter-
cultural relationships,**

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**technology, globalization,
and mass communication,
and how these influences
directly shape our
cultural identities in
today's world. She
integrates theory,**

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practice, and evidence of transcultural caring to show you how to apply transcultural awareness to your clinical decision making. Go beyond common stereotypes using a

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framework that can positively impact the nurse-patient relationship and the decision-making process. You'll learn how to deliver culturally competent care through the

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**selection and application
of transcultural
assessment, planning and
negotiation tools for
interventions.**

**Technological Revolutions
and Financial Capital**

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**presents a novel
interpretation of the good
and bad times in the
economy, taking a long-
term perspective and
linking technology and
finance in an original and**

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convincing way.

**Everyday Life and how it
Changes**

**Modeling the Dynamics of
Life: Calculus and
Probability for Life
Scientists**

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The Dynamics of Life
Teacher New York 2004
New Dimensions In Women's
Health
Villa Victoria
The Second Law of Life
"Ecohydrology is the study of

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the two-way interaction between the hydrological cycle and ecosystems. More broadly, it is the science of the linkages between life and water on Earth. On the one hand, the space and time variability of the hydrological

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cycle controls the water availability for ecosystems; on the other hand, ecosystems, especially through transpiration by vegetation, control the main pathway by which water returns to the atmosphere from land. The

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***terrestrial water cycle also
drives some of the dynamics
of soil organic matter, 7 8
CHAPTER INTRODUCTION
Abiotic processes (water and
energy cycles) Biotic
processes (carbon and
nutrient cycles, vegetation***

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***and soil microbes) 2-way
interaction Society
Agroecosystems (60% of
rainfall goes in transpiration
in agricultural land Rule of
thumb: 1 kg of bread requires
1 m³ of water) 2-way
interaction Figure 1.1:***

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Ecohydrology is characterized by the feedbacks between hydrological and ecological processes, involving numerous biotic and abiotic components, as well as by the growing interactions with the social components, especially

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ftwowayg through agroecosystems. microbial biomass, and the related nutrient cycling. These in turn not only affect the vegetation dynamics but also impact the hydraulic and thermodynamic properties of soil, thereby

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directly acting on the partitioning of water and energy fluxes at the land-atmosphere interface. The interaction between water balance and plants is responsible for some of the fundamental differences

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among biomes (e.g., forests, grasslands, savannas) and for the developments of their space-time patterns. Thus one of the first objectives of ecohydrology is to understand the intertwined dynamics of climate, soil, and vegetation.

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This interaction is especially interesting in water-limited ecosystems, where water is a limiting factor not only because of its scarcity but also because of its intermittent and unpredictable appearance.

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Many important practical issues depend on the quantitative understanding of the ecohydrological processes, including environmental preservation and proper management of soil and water resources. A solid scientific

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foundation of sustainable development and eco-agriculture must take into account the two-way interaction between biosphere and hydrosphere, as well as include a quantitative description of the human

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interference with these processes (see Fig. 1.1)"-- Provides a variety of ideas, techniques, and strategies for effective software development.

In this compelling, and important book, John Schmitz

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brings order to the world of chaos that surrounds us. The Second Law of Life refers to the second law of thermodynamics, entropy, which is an omnipresent force that quietly and crucially determines every aspect of

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our society, culture and daily lives. Unless we come to understand entropy, future generations will face consequences of the unstoppable laws of physics. Entropy explains the amount of energy no longer capable of

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doing work; in other words, wasted energy or heat loss. Each moment of every day, we lose irreplaceable energy and modern technology is not helping. In fact, it is accelerating the problem at a catastrophic rate. And we

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will ultimately face a heat death crisis and utter destruction of the Earth. Even actions we take to improve the environment may actually do more damage than good. For example, recycling is considered environmentally,

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socially and politically correct. Under the influence of entropy, however, it is a prolific waster of energy; we must look at entire systems, not just parts. It is critical that we find ways to reduce energy loss. Seeing the

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***problems with greater clarity
will lead to solutions. This
fascinating and accessible
journey through the second
law of thermodynamics is a
step in the right direction.
The Logic of Artificial Life
The Transformation of Social***

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Capital in a Boston Barrio
Dynamics of Long-Life Assets
Transcultural Caring
Dynamics in Nursing and
Health Care
Index Medicus
Ecohydrology

It is widely recognized

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nowadays that conical intersections of molecular potential-energy surfaces play a key mechanistic role in the spectroscopy of polyatomic molecules, photochemistry and chemical kinetics. This

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invaluable book presents a systematic exposition of the current state of knowledge about conical intersections, which has been elaborated in research papers scattered throughout the chemical

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physics literature. Section I of the book provides a comprehensive analysis of the electronic-structure aspects of conical intersections. Section II shows the importance of conical intersections in chemical

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reaction dynamics and gives an overview of the computational techniques employed to describe the dynamics at conical intersections. Finally, Section III deals with the role of conical intersections in the fields of

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molecular spectroscopy and
laser control of chemical
reaction dynamics. This book
has been selected for coverage
in: • CC / Physical, Chemical &
Earth Sciences • Chemistry
Citation Index(tm) • Index to

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Scientific Book Contents®
(ISBC) Contents: Fundamental
Concepts and Electronic
Structure TheoryConical
Intersections in Photoinduced
and Collisional
DynamicsDetection and Control

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of Chemical Dynamics at Conical
Intersections Readership:
Researchers in theoretical
chemistry, molecular
spectroscopy and
photochemistry.

Keywords: Conical Intersections;

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Photochemistry;Chemical
Reaction Dynamics;Photo-
dissociation;Diabetic

This book constitutes the
refereed proceedings of the 9th
European Conference on
Artificial Life, ECAL 2007, held in

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Lisbon, Portugal. The 125 revised full papers cover morphogenesis and development, robotics and autonomous agents, evolutionary computation and theory, cellular automata,

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models of biological systems and their applications, ant colony and swarm systems, evolution of communication, simulation of social interactions, self-replication, artificial chemistry.

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Biology of Life: Biochemistry, Physiology and Philosophy provides foundational coverage of the field of biochemistry for a different angle to the traditional biochemistry text by focusing on human biochemistry and

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incorporating related elements of evolution to help further contextualize this dynamic space. This unique approach includes sections on early human development, what constitutes human life, and

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what makes it special.

Additional coverage on the differences between the biochemistry of prokaryotes and eukaryotes is also included. The center of life in prokaryotes is considered to be photosynthesis

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and sugar generation, while the center of life in eukaryotes is sugar use and oxidative phosphorylation. This unique reference will inform specialized biochemistry courses and researchers in their

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understanding of the role
biochemistry has in human life.
Contextualizes the field of
biochemistry and its role in
human life Includes dedicated
sections on human
reproduction and human brain

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development Provides
extensive coverage on
biochemical energetics,
oxidative phosphorylation,
photosynthesis, and carbon
monoxide-acetate pathways
The Dynamics of Human

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Development

Population Aging, Mortality and
Data Analysis

6th International Conference on
Cellular Automata for Research
and Industry, ACRI 2004,
Amsterdam, The Netherlands,

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October 25-28, 2004.

Proceedings

Structure and Dynamics of
Macromolecules: Absorption
and Fluorescence Studies

Biology Dynamics of Life

Louisiana Teacher Package 2004

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The Dynamics of Life Sample Package 2004

In present times,
certain fields of
science are becoming
aware of the necessity
to go beyond a

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restrictive
specialization, and
establish an open
dialogue with other
disciplines. Such is the
case of the approach
that neuroscience and

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philosophy are performing in the last decade. However, this increasing interest in a multidisciplinary perspective should not be understood, in our

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opinion, as a new phenomenon, but rather as a return to a classical standpoint: a proper understanding of human features -organic, cognitive, volitional,

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motor or behavioral, for example- requires a context that includes the global dimension of the human being. We believe that grand neuroscientific

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conclusions about the
mind should take into
account what
philosophical reflection
has said about it;
likewise, philosophers
should consider the

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organic constitution of
the brain to draw
inferences about the
mind. Thus, both
neuroscience and
philosophy would benefit
from each other's

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achievements through a fruitful dialogue. One of the main problems a multidisciplinary group encounters is terminology: the same term has a different

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scope in various fields, sometimes even contradictory. Such is the case of habits: from a neuroscientific perspective, a habit is a mere automation of an

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action. It is,
therefore, linked to
rigidity and limitation.
However, from a
classical philosophical
account, a habit is an
enabling capacity

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acquired through
practice, which
facilitates, improves
and reinforces the
performance of certain
kind of actions. From
neuroscience, habit

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acquisition restricts a
subject's action to the
learnt habit; from
philosophy, habit
acquisition allows the
subject to set a
distance from the simple

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motor performance to
cognitively enrich the
action. For example,
playing piano is a
technical habit;
considering the
neuroscientific account,

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a pianist would just play those sequences of keystrokes that had been repeatedly practiced in the past. However, according to the philosophical

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perspective, it would allow the pianist to improvise and, moreover, go beyond the movements of their hands to concentrate in other features of musical

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interpretation. In other words, a holistic view of habits focuses on the subject's disposition when facing both known and novel situations. We believe neuroscience

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could contribute to
achieve a deeper
understanding of the
neural bases of habits,
whose complexity could
be deciphered by a
philosophical

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reflection. Thus, we propose this Research Topic to increase our understanding on habits from a wide point of view. This collection of new experimental

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research, empirical and
theoretical reviews,
general commentaries and
opinion articles covers
the following subjects:
habit learning; implicit
memory; computational

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and complex dynamical
accounts of habit
formation; practical,
cognitive, perceptual
and motor habits; early
learning;
intentionality;

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consciousness in habits
performance;
neurological and
psychiatric disorders
related to habits, such
as obsessive-compulsive
disorder, stereotypies

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or addiction; habits as
enabling or limiting
capacities for the agent
This book is published
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license. The editors
present essential

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methods and tools to support a holistic approach to the challenge of system upgrades and innovation in the context of high-value products and

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services. The approach presented here is based on three main pillars: an adaptation mechanism based on a broad understanding of system dependencies; efficient

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use of system knowledge
through involvement of
actors throughout the
process; and
technological solutions
to enable efficient
actor communication and

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information handling. The book provides readers with a better understanding of the factors that influence decisions, and put forward solutions to

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facilitate the rapid
adaptation to changes in
the business environment
and customer needs
through intelligent
upgrade interventions.
Further, it examines a

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number of sample cases
from various contexts
including car
manufacturing,
utilities, shipping and
the furniture industry.
The book offers a

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valuable resource for both academics and practitioners interested in the upgrading of capital-intensive products and services.

“The work performed in

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the project “Use-It-Wisely (UiW)” significantly contributes towards a collaborative way of working. Moreover, it offers comprehensive

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system modelling to
identify business
opportunities and
develop technical
solutions within
industrial value
networks. The developed

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UiW-framework fills a void and offers a great opportunity. The naval construction sector of small passenger vessels, for instance, is one industry that can

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benefit.” Nikitas
Nikitakos, Professor at
University of the
Aegean, Department of
Shipping, Trade, and
Transport, Greece. “Long-
life assets are crucial

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for both the future
competitiveness and
sustainability of
society. Make wrong
choices now and you are
locked into a wrong
system for a long time.

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Make the right choices
now and society can
prosper. This book gives
important information
about how manufacturers
can make right choices.”

Arnold Tukker,
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Scientific director,
Institute of
Environmental Sciences
(CML), Leiden
University, and senior
scientist, TNO.
Mortality improvements,

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uncertainty in future
mortality trends and the
relevant impact on life
annuities and pension
plans constitute
important topics in the
field of actuarial

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mathematics and life insurance techniques. In particular, actuarial calculations concerning pensions, life annuities and other living benefits (provided, for

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example, by long-term care insurance products and whole life sickness covers) are based on survival probabilities which necessarily extend over a long time

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horizon. In order to avoid underestimation of the related liabilities, the insurance company (or the pension plan) must adopt an appropriate forecast of

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future mortality. Great attention is currently being devoted to the management of life annuity portfolios, both from a theoretical and a practical point of view,

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because of the growing importance of annuity benefits paid by private pension schemes. In particular, the progressive shift from defined benefit to

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defined contribution pension schemes has increased the interest in life annuities with a guaranteed annual amount. This book provides a comprehensive

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and detailed description
of methods for
projecting mortality,
and an extensive
introduction to some
important issues
concerning longevity

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risk in the area of life annuities and pension benefits. It relies on research work carried out by the authors, as well as on a wide teaching experience and

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in CPD (Continuing Professional Development) initiatives. The following topics are dealt with: life annuities in the

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framework of post-
retirement income
strategies; the basic
mortality model; recent
mortality trends that
have been experienced;
general features of

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projection models;
discussion of stochastic
projection models, with
numerical illustrations;
measuring and managing
longevity risk.

Technological

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Revolutions and
Financial Capital
Calcium: A Matter of
Life or Death
Cellular Automata
Biochemistry, Physiology
and Philosophy

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Dynamics of Software
Development

Biology Dynamics of Life

Louisiana Gee 21 Test

Prep Workbook Te 2004

This book provides new theories,
applications and quantitative

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methods in demography, population studies and statistics. It presents and applies data analysis, statistics and stochastic modeling techniques focusing on demography, population aging, mortality and health sciences. The book describes diverse

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stochastic processes as well as Markov and semi-Markov models in demography and population studies, along with chapters on statistical models and methods in biostatistics and epidemiology. As such the book will be a valuable source to demographers, health

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scientists, statisticians, economists and sociologists.

"The handbook is an impressive collection of research studies and theories provided by knowledgeable contributors on life-span development from conception to old

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age."--Anthropology and Aging Quarterly The doubling of our average life span since the turn of the 20th century is considered by many scholars to be one of the most important changes in human existence. This definitive text is the only volume to fully

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address, through a multidisciplinary perspective, the biological, cognitive, and psychological development that occurs from infancy through old age, and how the sociocultural and institutional factors interface with these changes. Edited by

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leading research scholars in the field of life-span development, the volume also includes contributions of specialists in behavioral genetics, socioemotional selectivity theory, neuroscience, ecological models, and more. It examines the

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dynamics of close relationships and informal ties among the elderly population, child-parent attachment relationships as a life-span phenomenon, developmental tasks across the lifespan, continuity and discontinuity in temperament and

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personality, the sociocultural context of cognition across the life span, and variability in approaches to social problem solving from early to later life. Given the number of recent demographic shifts, it also explores issues related to fertility,

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life expectancy, environmental contexts, technology, immigration, and public policy. Key Features: Integrates the full life span from infancy through old age in each chapter Considers multidisciplinary perspectives that address personal

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relationships, cognitive development, and social, emotional, and physical health across the life span Situates life-span development in ecological contexts (e.g., socioeconomic, neighborhood, and immigration status) Provides a concise but

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thorough resource for graduate seminars in life-span-related studies Highlights future issues in all areas of life-span study
Everyday life is defined and characterised by the rise, transformation and fall of social practices. Using terminology that

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is both accessible and sophisticated, this essential book guides the reader through a multi-level analysis of this dynamic. In working through core propositions about social practices and how they change the book is clear and accessible; real world examples,

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including the history of car driving, the emergence of frozen food, and the fate of hula hooping, bring abstract concepts to life and firmly ground them in empirical case-studies and new research. Demonstrating the relevance of social theory for

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public policy problems, the authors show that the everyday is the basis of social transformation addressing questions such as: how do practices emerge, exist and die? what are the elements from which practices are made? how do practices recruit

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practitioners? how are elements, practices and the links between them generated, renewed and reproduced? Precise, relevant and persuasive this book will inspire students and researchers from across the social sciences.

Elizabeth Shove is Professor of

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Sociology at Lancaster University. Mika Pantzar is Research Professor at the National Consumer Research Centre, Helsinki. Matt Watson is Lecturer in Social and Cultural Geography at University of Sheffield.

The Dynamics of Agglomeration,

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Change, and Adaption
A Life Cycle for Clusters?
Charting Pathways Through
Change
Biology of Life

Conical Intersections

For decades now, scholars and

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politicians alike have argued that the concentration of poverty in city housing projects would produce distrust, alienation, apathy, and social isolation—the disappearance of what sociologists call social capital. But relatively few have examined

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precisely how such poverty affects social capital or have considered for what reasons living in a poor neighborhood results in such undesirable effects. This book examines a neglected Puerto Rican enclave in Boston to consider the

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economic forces (e.g. discourses, governance and finance) in order to understand where innovation happens in the life sciences, where and how value circulates in the life sciences, and who captures the value produced in life sciences

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