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Proceeding from basic
fundamentals to

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applications, this volume provides a comprehensive overview of the use of AFM and related scanning probe microscopies for cell surface analysis. It covers all cell types, from viruses and protoplasts to bacteria

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and animal cells. It also discusses a range of advanced AFM modalities, including high-resolution imaging, nanoindentation measurements, recognition imaging, and single-molecule and single-cell force

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spectroscopy. The book covers methodologies for preparing and analyzing cells and membranes of all kinds and highlights recent examples to illustrate the power of AFM techniques in life sciences and

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nanomedicine.

Why do we believe that aging is the cause of most of our problems as we get older?

Age and aging actually have much less to do with it than you think. Live Young, Think Young, Be Young challenges

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our assumptions and beliefs about aging, and provides a fresh, new understanding of how and why we grow old. It will make you think differently about little things in your daily life that accelerate the three

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“mega” causes of getting old. In the end, this book is about courage and resilience—the courage to change what can be changed and the resilience to accept what can't be changed. Together, they provide a

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powerful plan for staying young in body, mind, and spirit.

Throughout the past 30 years, there have been significant developments in theory and research relating family variables to various

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psychopathologies. The potential importance of such efforts is obviously great, given the implications that reliable and valid findings would hold for treatment and preventive interventions across a variety of settings

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and populations. The purpose of this volume is to present a critical evaluation of this field of inquiry through a detailed assessment of the theoretical perspectives, the methodological issues,

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and the substantive findings that have characterized family studies of psychopathology during the past several decades. The book is divided into four parts, each containing contributions from leading

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researchers and theorists in the field. The first part, "Background," presents a review of the major streams of influence that have shaped the development and the present character of the field. The second part,

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"Conceptual Foundations," contains presentations of general models and orientations relevant to family studies of psychopathology. In most cases, a particular theoretical perspective

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provides the primary underpinning of the approach, the exception to this format being the family model of David Reiss based on the concept of the family paradigm. The major objective of this part is to

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present a broad yet detailed set of chapters that address the conceptual status of the field. It is hoped that this material will provide a rich background against which subsequent discussions of specific theories, methods,

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and findings can be more fully appreciated.

This is an authoritative introductory text that presents biological concepts through the research that revealed them. "Life" covers the full range of topics

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with an integrated
experimental focus that
flows naturally from the
narrative.

Raising Children You Can
Live with

A Guide to Biology w/Prep-U
Practices, Crosscutting

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Concepts, and Core Ideas

Essential Concepts for

Healthy Living Update

A Framework for K-12 Science

Education

The Science of Biology

**Nature helps... of course at first
itself by developing measures**

Page 18/195

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that give bacteria, fungi, plants and animals a chance to be successful in their struggle for life. As a latecomer on Earth, Homo sapiens was gifted with some droplets of the divine spirit of recognition and thus became

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able to observe, to analyse and recombine skills of other living beings and to use them for his overwhelming career over the last 10,000 years. Of course fungi, plants, animals and even bacteria were primarily used by

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mankind as food or as lifestyle products such as beer, but soon it became clear that there was much more potential hidden in these organisms and that they could be used for other purposes, too. Extracts of plants

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and fungi were recognized as powerful remedies, as medicines, as insecticides or acarizides, as repellents against parasites or even as weapons, e.g. when poisonous compounds from frogs or plants were

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applied to arrowheads. Over the last 110 years the pharmaceutical industry has often simulated nature by analyzing complex organic substances taken from living organisms and then producing

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by synthesis absolutely pure compounds, which mostly consisted of only one single active substance. These products had the advantage of acting against precisely one target and thus produced fewer

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possible side effects than the complex plant extracts. However, the more serious side effect was that disease agents could develop resistances to pure medicinal products much more easily. Thus after 70 years

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of excellent prospects for chemotherapy, some dark clouds appeared and quickly gathered, so that several therapeutic remedies now no longer work. Therefore in many countries - especially in those

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**where the pure
chemotherapeutics are too
expensive for the poor
population - the cry “back to
nature” is becoming louder and
louder. This has led to an
enormous increase of studies**

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that again use natural extracts as remedies in the fight against diseases. The present book summarizes examples of promising aspects in a broad spectrum of applications and shows how extracts derived

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from bacteria, marine organisms, plants or even animals may help to treat infectious diseases, how such organisms may keep away parasites and pests from the bodies of plants or animals, including humans, and how they

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can be used directly to aid in diagnosis, promote wound healing and even to help catch criminals. These 15 chapters offer not only basic research on these different fields, but also show how useful and effective

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products can be developed from research.

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only

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college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with

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their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more

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importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an

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evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics

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within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology

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is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker

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questions to help students understand--and apply--key concepts.

Essential Concepts for Healthy Living, Fifth Edition Update provides students with a clear and concise introduction to the

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latest scientific and medical research in personal health. With its unique focus on critical thinking and analysis of health-related behaviors and attitudes, this text enhances students understanding of their own

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health needs and presents the scientific background necessary for students to think critically about the reliability of health-related information they encounter in the media. The Fifth Edition Update provides

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the most current data on a comprehensive array of health and wellness topics and issues. It includes the latest information on: Health Care Costs; Binge Drinking; Alternative Medical Therapies; Mental Illness and

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Depression; Sexually Transmitted Diseases; Eating Disorders; Physical Activity and Health; Cervical and Prostate Cancer; Drug Use and Abuse, and much more."
Covering strategies for effective

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communication, Health Professional and Patient Interaction, 8th Edition provides the tools to help you establish positive patient relationships built on respect. Practical examples and scenarios show

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how to apply respect and professionalism to patients of various ages and levels of impairment. New to this edition is an Evolve companion website with video clips and simulation activities, each showing the

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principles of respectful interactions between health care professionals and patients. Written by an expert author team of Ruth Purtilo, Amy Haddad, and Regina Doherty, this resource addresses respect in

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the context of different practice settings, a diverse society, and difficult situations. Patient Cases introduce the patient's point of view to illustrate key principles and encourage a more personal connection. Reflections boxes

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challenge you to apply critical thinking skills and your personal experience to different scenarios. Questions for Thought and Discussion at the end of each section help you apply your knowledge to a

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variety of situations.

**Interdisciplinary approach
addresses basic issues that
apply to many different
healthcare disciplines.**

**Strategies for effective
communication are shown with**

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patient examples and scenarios, applied to patients of all ages and with various levels of physical and emotional impairment. An emphasis on respect and ethics sets up a basis for building positive

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relationships with patients. Updated health care terminology keeps you current with communication in today's health care settings. Expanded content on diversity reflects diverse patient populations and shows

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how to respect differences. NEW author Regina Doherty brings an occupational therapy perspective to this edition.

**Nutrition Research
Methodologies**

A Resource for Clinicians and

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Researchers

**A Human Approach. Teacher's
guide**

Evolutionary Behavioral Ecology

What Is Life?

Life at the Nanoscale

How can analytics scholars and

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healthcare professionals access the most exciting and important healthcare topics and tools for the 21st century? Editors Tinglong Dai and Sridhar Tayur, aided by a team of internationally acclaimed experts, have curated this timely volume to

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help newcomers and seasoned researchers alike to rapidly comprehend a diverse set of thrusts and tools in this rapidly growing cross-disciplinary field. The Handbook covers a wide range of macro-, meso- and micro-level thrusts—such as

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market design, competing interests, global health, personalized medicine, residential care and concierge medicine, among others—and structures what has been a highly fragmented research area into a coherent scientific discipline. The

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handbook also provides an easy-to-comprehend introduction to five essential research tools—Markov decision process, game theory and information economics, queueing games, econometric methods, and data science—by illustrating their uses

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and applicability on examples from diverse healthcare settings, thus connecting tools with thrusts. The primary audience of the Handbook includes analytics scholars interested in healthcare and healthcare practitioners interested in analytics.

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This Handbook: Instills analytics scholars with a way of thinking that incorporates behavioral, incentive, and policy considerations in various healthcare settings. This change in perspective—a shift in gaze away from narrow, local and one-off operational

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improvement efforts that do not replicate, scale or remain sustainable—can lead to new knowledge and innovative solutions that healthcare has been seeking so desperately. Facilitates collaboration between healthcare experts and

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analytics scholar to frame and tackle their pressing concerns through appropriate modern mathematical tools designed for this very purpose. The handbook is designed to be accessible to the independent reader, and it may be used in a variety of

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settings, from a short lecture series on specific topics to a semester-long course.

This book describes how a number of different methods of analysis and modelling, including the boundary element method, the finite element

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method, and a range of classical methods, are used to answer some of the questions associated with soil-structure interaction.

The ideal resource for rehabilitation professionals who are working with or preparing to work with older adults! It

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describes the normal aging process, illustrates how health and social factors can impede an aging person ' s abilities, and demonstrates how to develop mechanisms for maximizing the well-being of older adults.

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Apart from the textbooks that students use in school, Science Partner: A Complete Guide to Upper Block Science plays a significant role as a resource book for them. Topics under each theme (Cycles, Systems, Interactions and Energy) are covered

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in detail based on the latest primary science syllabus for primary 5 and 6. The language used in this book is simple and easy to understand so that students can easily and effectively learn and understand the concepts of science. A variety of examples and

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illustrations are found within each topic to generate the interest of the students. In addition, four different types of pictorial icons are used in the book. They point out to students to pay attention to the important information that is given. Example -

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provide examples and explanations.
Alert - bring to students ' attention a concept, term or information that they need to fully and consciously understand. This has been added because it is found that many students have a common misconception of an

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idea, term or concept in science and it should be rectified. Extra - indicate that more information on the topic is given so that students can increase their knowledge of the subject matter. Experiment - indicate to students the relevant experiments that need to be

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conducted so as to build knowledge and understanding of a concept. Important points are listed out at the end of each topic under a titled box ' What I Have Learnt In This Chapter ' for quick and easy reference before the examinations.

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Students will find that this resource book helps make studying science an enjoyable journey for them. It is hoped that through this book, a student ' s learning of science concepts is further enhanced and his interest level in science is increased.

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Human and Animal Cognition in
Early Modern Philosophy and
Medicine

Exploring the Life, Earth, and Physical
Sciences. Level red

The Ecology of Sustainable Food
Systems

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Spectral Techniques In Proteomics
Rhythm, Play and Interaction Design
Life, Part 1: The Cell

The question of why an individual would actively kill itself has long been an evolutionary mystery. Pierre M. Durand's ambitious book answers this

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question through close inspection of life and death in the earliest cellular life. As Durand shows us, cell death is a fascinating lens through which to examine the interconnectedness, in evolutionary terms, of life and death. It is a truism to note that one does not

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exist without the other, but just how does this play out in evolutionary history? These two processes have been studied from philosophical, theoretical, experimental, and genomic angles, but no one has yet integrated the information from these various

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disciplines. In this work, Durand synthesizes cellular studies of life and death looking at the origin of life and the evolutionary significance of programmed cellular death. The exciting and unexpected outcome of Durand's analysis is the realization that

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life and death exhibit features of coevolution. The evolution of more complex cellular life depended on the coadaptation between traits that promote life and those that promote death. In an ironic twist, it becomes clear that, in many circumstances,

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programmed cell death is essential for sustaining life.

A new book in the acclaimed Nutrition Society Textbook Series, Nutrition Research Methodologies addresses the rapidly advancing field of nutrition research. It covers the diverse

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methodologies required for robust nutritional research to ensure thorough understanding of key concepts, both for students at undergraduate and postgraduate levels and for scientists working in nutrition research.

Combining theory with practical

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application, Nutrition Research Methodologies addresses both traditional research methods and new technologies, and focuses on a range of complex topics, including energy compensation, nutrient-gene interactions and metabolic adaptation.

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It also considers statistical issues as well as application of data to policy development. Provides the reader with the required scientific basics of nutrition research in the context of a systems and health approach Written specifically to meet the needs of

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individuals involved in nutrition research Combines the viewpoints of world-leading nutrition experts from academia and research with practical applications Accompanied by a companion website with a range of self-assessment material (www.wiley.com/g

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o/lovegrove/nutritionresearch)

The process of matching a person who has a disability with the most appropriate assistive technology requires a series of assessments, typically administered by multidisciplinary teams at specialized

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centers for technical aid. Assistive Technology Assessment Handbook fills the need for a reference that helps assistive technology experts perform assessments that more effectively connect the person and the technology. Emphasizing the well-being of the

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individual with a disability, the book proposes an ideal model of the assistive technology assessment process and outlines how this model can be applied in practice internationally. Organized into three parts, the handbook: Gives readers a toolkit for performing

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assessments Describes the roles of the assessment team members, among them the new profession of the psychotechnologist, who is skilled in understanding individuals and their psychosocial and technological needs and preferences Reviews cutting-edge

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technologies for rehabilitation and independent living, including brain–computer interfaces and microswitches The book synthesizes information scattered throughout the international literature, focusing on aspects that are particularly

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representative or innovative. It also addresses the challenges posed by the variety of health and social care systems and the different ways that individuals who need aid are defined—are they users, patients, clients, or consumers, and how does

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that affect the assessment? Edited by Stefano Federici and Marcia J. Scherer, internationally renowned leaders in the field of assistive technology assessment, this cross-cultural handbook includes contributions from leading experts across five continents.

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Guiding readers in matching the person and the appropriate assistive technology, it offers a framework for future practice and research. Listen to Stefano Federici talk about the handbook.

Science, engineering, and technology

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permeate nearly every facet of modern life and hold the key to solving many of humanity's most pressing current and future challenges. The United States' position in the global economy is declining, in part because U.S. workers lack fundamental knowledge in these

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fields. To address the critical issues of U.S. competitiveness and to better prepare the workforce, A Framework for K-12 Science Education proposes a new approach to K-12 science education that will capture students' interest and provide them with the

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necessary foundational knowledge in the field. A Framework for K-12 Science Education outlines a broad set of expectations for students in science and engineering in grades K-12. These expectations will inform the development of new standards for K-12

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science education and, subsequently, revisions to curriculum, instruction, assessment, and professional development for educators. This book identifies three dimensions that convey the core ideas and practices around which science and engineering

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education in these grades should be built. These three dimensions are: crosscutting concepts that unify the study of science through their common application across science and engineering; scientific and engineering practices; and disciplinary core ideas in

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the physical sciences, life sciences, and earth and space sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in

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public discussions on science-related issues, be careful consumers of scientific and technical information, and enter the careers of their choice. A Framework for K-12 Science Education is the first step in a process that can inform state-level decisions

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and achieve a research-grounded basis for improving science instruction and learning across the country. The book will guide standards developers, teachers, curriculum designers, assessment developers, state and district science administrators, and educators

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who teach science in informal environments.

Atomic Force Microscopy of Live Cells

Agroecology

Discourse Analysis in Adults With and Without Communication Disorders

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Principles of Ecotoxicology
Theoretical Minimum for Conducting
21st Century Research on Healthcare
Operations

*This book promotes a critical
reflection about the research
conducted so far in Human-Computer*

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Interaction (HCI) with older people, whose predominant perspective focuses on decline, health, and help. It introduces a new (or different) perspective, which is grounded in interdisciplinary research on older people and digital technologies. Key

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elements are to (i) address topics that include, but also go beyond decline, health, and help, such as leisure, fun, creativity and culture, to delve more deeply into the role of digital technologies in multiple facets of older people's lives; (ii) focus on

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doing research and designing technologies with and for older adults, and their communities, to avoid and fight against negative social conceptions of ageing; and (iii) examine older people's life course, strengths, interests, and values, as

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well as their limitations and needs, to design technologies that not only help but also empower them, extending their abilities and acquiring new knowledge, beyond technology use. This perspective aims to help us better understand, design, and evaluate

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older people's interactions with digital technologies in the early 21st century.

Discourse Analysis in Adults With and Without Communication Disorders: A Resource for Clinicians and Researchers provides state-of-the-

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art information about discourse analysis with sections on Aging, Aphasia, Cognitive Communication Disorders, and Neurodegenerative Diseases. The three renowned editors are actively engaged in the area of discourse. Expert clinical researchers

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introduce and organize each section, and chapters are authored by leaders involved in discourse research worldwide. Discourse is considered the most natural unit of language. Effective production of discourse requires complex interactions among

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linguistic, cognitive, and social abilities that are sensitive to even mild disruption in any one of these elements. This book covers the examination of discourse in adults with acquired communication disorders, including selecting

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elicitation tasks, streamlining transcription processes, expanding analysis methods, and translating findings for treatment application.

*Key Features * Provides a global perspective on discourse assessment for clinicians * Dedicated chapters on*

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aging, aphasia, traumatic brain injury, right hemisphere disorder, primary progressive aphasia, Alzheimer's dementia, Parkinson's disease, and amyotrophic lateral sclerosis Disclaimer: Please note that ancillary content (such as documents,

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audio, and video, etc.) may not be included as published in the original print version of this book.

Smart Homes (SH) offer a promising approach to assisted living for the ageing population. Yet the main obstacle to the rapid development and

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deployment of Smart Home (SH) solutions essentially arises from the nature of the SH field, which is multidisciplinary and involves diverse applications and various stakeholders. Accordingly, an alternative to a one-size-fits-all approach is needed in

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order to advance the state of the art towards an open SH infrastructure. This book makes a valuable and critical contribution to smart assisted living research through the development of new effective, integrated, and interoperable SH

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solutions. It focuses on four underlying aspects: (1) Sensing and Monitoring Technologies; (2) Context Interference and Behaviour Analysis; (3) Personalisation and Adaptive Interaction, and (4) Open Smart Home and Service Infrastructures,

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demonstrating how fundamental theories, models and algorithms can be exploited to solve real-world problems. This comprehensive and timely book offers a unique and essential reference guide for policymakers, funding bodies,

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researchers, technology developers and managers, end users, carers, clinicians, healthcare service providers, educators and students, helping them adopt and implement smart assisted living systems. This completely revised edition, of the

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Handbook of Human-Computer Interaction, of which 80% of the content is new, reflects the developments in the field since the publication of the first edition in 1988. The handbook is concerned with principles for design of the Human-

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Computer Interface, and has both academic and practical purposes. It is intended to summarize the research and provide recommendations for how the information can be used by designers of computer systems. The volume may also be used as a

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reference for teaching and research. Professionals who are involved in design of HCI will find this volume indispensable, including: computer scientists, cognitive scientists, experimental psychologists, human factors professionals, interface

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designers, systems engineers, managers and executives working with systems development. Much of the information in the handbook may also be generalized to apply to areas outside the traditional field of HCI. Field and Laboratory Investigations

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in Agroecology

Concepts of Biology

Model Rules of Professional Conduct

Functional Performance in Older

Adults

Perspectives on Human-Computer

Interaction Research with Older

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People

Life Span Motor Development

***Facilitating the innovation,
development, and application
of new spectroscopic methods
in proteomics, Spectral
Techniques in Proteomics***

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provides a broad overview of the spectroscopic toolbox that can be used, either with proteome or sub-proteome mixtures or with individual/purified proteins studied in parallel. It gives a

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***modest overview of
The key idea of the book is
that scientific and practical
advances can be obtained if
researchers working in
traditions that have been
assumed to be mutually***

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incompatible make a real effort to engage in dialogue with each other, comparing and contrasting their understandings of a given phenomenon and how these different understandings can

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either complement or mutually elaborate on each other. This key idea applies to many fields, particularly in the social and behavioral sciences, as well as education and computer science. The book

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shows how we have achieved this by presenting our study of collaborative learning during the course of a four-year project. Through a series of five workshops involving dozens of researchers, the 37

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editors and authors involved in this project studied and reported on collaborative learning, technology enhanced learning, and cooperative work. The authors share an interest in understanding

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group interactions, but approach this topic from a variety of traditional disciplinary homes and theoretical and methodological traditions. This allows the book to be of

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***use to researchers in many
different fields and with many
different goals and agendas.
BSCS Biology A Human
Approach. Teacher's
guide Kendall Hunt A
Framework for K-12 Science***

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***Education Practices,
Crosscutting Concepts, and
Core Ideas National Academies
Press***

***Pre-eminent authorities in the
field cover the origins and
development of attachment***

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theory, biological attachment theory, biological perspectives, measurement of attachment across the lifespan, and emerging topics and perspectives.

The Evolutionary Origins of

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***Life and Death
Handbook of Healthcare
Analytics
Health Professional and
Patient Interaction - E-Book
Theories, Methods and
Findings***

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Nature Helps...

Glencoe Science Voyages

From the sixteenth to the eighteenth century, new anatomical investigations of the brain and the nervous system, together with a renewed interest

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in comparative anatomy, allowed doctors and philosophers to ground their theories on sense perception, the emergence of human intelligence, and the soul/body relationship in modern science. They investigated the

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anatomical structures and the physiological processes underlying the rise, differentiation, and articulation of human cognitive activities, and looked for the “anatomical roots” of the specificity of

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human intelligence when compared to other forms of animal sensibility. This edited volume focuses on medical and philosophical debates on human intelligence and animal perception in the early modern

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age, providing fresh insights into the influence of medical discourse on the rise of modern philosophical anthropology. Contributions from distinguished historians of philosophy and medicine focus on sixteenth-

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century zoological, psychological, and embryological discourses on man; the impact of mechanism and comparative anatomy on philosophical conceptions of body and soul; and the key

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status of sensibility in the medical and philosophical enlightenment.

The Model Rules of Professional Conduct provides an up-to-date resource for information on legal ethics. Federal, state and local

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courts in all jurisdictions look to the Rules for guidance in solving lawyer malpractice cases, disciplinary actions, disqualification issues, sanctions questions and much more. In this volume, black-letter

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Rules of Professional Conduct are followed by numbered Comments that explain each Rule's purpose and provide suggestions for its practical application. The Rules will help you identify proper conduct in a

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variety of given situations, review those instances where discretionary action is possible, and define the nature of the relationship between you and your clients, colleagues and the courts.

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Fluorescence Microscopy of Living Cells in Culture, Part A

The field of environmental chemistry has evolved significantly since the publication of the first edition of Environmental Chemistry.

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Throughout the book's long life, it has chronicled emerging issues such as organochloride pesticides, detergent phosphates, stratospheric ozone depletion, the banning of chlorofluorocarbons, and

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greenhouse warming. D

e-Science Partner: A Complete
Guide To Upper Block Science
5/6

A Guide for Frustrated Parents
Toward An Open Smart-Home
Infrastructure

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. . . At Any Age

Fluorescence Microscopy of
Living Cells in Culture, Part A
Live Young, Think Young, Be
Young

"Raising Children You Can Live With"
gives you answers to all your

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parenting questions. Jamie Raser provides helpful phrases to use in difficult situations, tells how to turn sour interactions into pleasant ones, and outlines specific strategies for success. This easy-to-use book gives you exactly what you need in order to have healthy, fulfilling relationships

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with your children.

There are rhythms of action and response to all human-computer interactions. As we click, swipe, tap and sway to their beats, these rhythms intersect with the rhythms of our everyday lives. Perhaps they synchronize, perhaps they disrupt

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each other or maybe they dance together. Whatever their impact our experience of these rhythms will colour our experience of an interaction design. In playful interactive applications, rhythm is especially crucial because of the role it performs in building and maintaining the

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rhythmic design practice in dance, performance, music and architecture, this book reveals key insights into practical strategies for designing playful rhythmic experience. With playful experiences now being incorporated into almost every type of computer application, interaction

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importance of using an ecosystem framework for determining if a particular agricultural practice, input, or management decision contributes or detracts

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from sustainability. He explains how the framework provides the ecological basis for the functioning of the chosen management strategy over the long-

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the need for
understanding the
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