

## Neuroscienze Con Contenuto Digitale Fornito Elettronicamente

Completely updated and in brilliant full color, Merritt's Neurology, 13th Edition, remains your reference of choice for outstanding guidance on neurologic protocols, treatment guidelines, clinical pathways, therapeutic recommendations, and imaging. Greatly reorganized for ease of use, the 13th Edition features more than 30 new chapters that keep you up to date with every aspect of your field. Now for the first time, you'll find dozens of video clips online that demonstrate the clinical signs and symptoms of neurologic disorders. Features: Visualize neurologic topics more easily than ever with an all-new, full-color format throughout. Benefit from the fresh perspective of new editors Dr. Elan Louis and Dr. Stephan Mayer, in addition to 180 expert contributors who offer guidance in their areas of expertise. Stay current with today's hottest topics, thanks to new chapters on the global burden of neurological disease; magnetic resonance imaging and other imaging modalities; sleep studies; mild cognitive impairment; concussion; restless legs syndrome; seizures in children; HIV, fetal alcohol syndrome, and drug effects; and many more. Find the information you need more quickly thanks to a reorganized format. In 153 succinct chapters, you'll

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find the essentials you need on signs and symptoms, diagnostic tests, and neurologic disorders of all etiologies. Watch approximately 40 video clips online to gain a clear understanding of the clinical signs and symptoms of neurologic disorders. Get the up-to-date information you need from the practical, readable resource that's trusted and used by neurologists, primary care physicians, and residents. This is the third edition of *Animal Diversity*, and presents a survey of the animal kingdom with emphasis on diversity, evolutionary relationships, functional adaptations, and environmental interactions. It is tailored for a one-semester or one-quarter course and is appropriate for both non-science and science majors.

Traditional approaches to ANOVA and ANCOVA are now being replaced by a General Linear Modeling (GLM) approach. This book begins with a brief history of the separate development of ANOVA and regression analyses and demonstrates how both analysis forms are subsumed by the General Linear Model. A simple single independent factor ANOVA is analysed first in conventional terms and then again in GLM terms to illustrate the two approaches. The text then goes on to cover the main designs, both independent and related ANOVA and ANCOVA, single and multi-factor designs. The conventional statistical assumptions underlying ANOVA and ANCOVA are detailed and given expression in GLM

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terms. Alternatives to traditional ANCOVA are also presented when circumstances in which certain assumptions have not been met. The book also covers other important issues in the use of these approaches such as power analysis, optimal experimental designs, normality violations and robust methods, error rate and multiple comparison procedures and the role of omnibus F-tests.

This collection of H. P. Lovecraft's work contains 71 stories by the master of weird fantasy and strange horror fiction. The stories include well-known gems such as 'The Call of Cthulhu', 'The Dunwich Horror' and 'The Case of Charles Dexter Ward' as well as lesser known works. The stories are in chronological order, thus allowing the reader to explore how Lovecraft's work developed over the course of his writing career. It is the perfect introduction to the work of a writer who has influenced countless authors who have followed in his wake, such as Stephen King.

Challenging the belief that the sense of smell diminished during human evolution, Shepherd argues that this sense, which constitutes the main component of flavor, is far more powerful and essential than previously believed. --from publisher description

Are art and science separated by an unbridgeable divide? Can they find common ground? In this new book, neuroscientist Eric R. Kandel, whose

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remarkable scientific career and deep interest in art give him a unique perspective, demonstrates how science can inform the way we experience a work of art and seek to understand its meaning. Kandel illustrates how reductionism—the distillation of larger scientific or aesthetic concepts into smaller, more tractable components—has been used by scientists and artists alike to pursue their respective truths. He draws on his Nobel Prize-winning work revealing the neurobiological underpinnings of learning and memory in sea slugs to shed light on the complex workings of the mental processes of higher animals. In *Reductionism in Art and Brain Science*, Kandel shows how this radically reductionist approach, applied to the most complex puzzle of our time—the brain—has been employed by modern artists who distill their subjective world into color, form, and light. Kandel demonstrates through bottom-up sensory and top-down cognitive functions how science can explore the complexities of human perception and help us to perceive, appreciate, and understand great works of art. At the heart of the book is an elegant elucidation of the contribution of reductionism to the evolution of modern art and its role in a monumental shift in artistic perspective. Reductionism steered the transition from figurative art to the first explorations of abstract art reflected in the works of Turner, Monet, Kandinsky, Schoenberg, and Mondrian. Kandel explains how, in the postwar

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era, Pollock, de Kooning, Rothko, Louis, Turrell, and Flavin used a reductionist approach to arrive at their abstract expressionism and how Katz, Warhol, Close, and Sandback built upon the advances of the New York School to reimagine figurative and minimal art. Featuring captivating drawings of the brain alongside full-color reproductions of modern art masterpieces, this book draws out the common concerns of science and art and how they illuminate each other.

Martha Nussbaum asks: How can we sustain a decent society that aspires to justice and inspires sacrifice for the common good? Amid negative emotions endemic even to good societies, public emotions rooted in love--intense attachments outside our control--can foster commitment to shared goals and keep at bay the forces of disgust and envy. Balances coverage of the concepts of cell and molecular biology, using examples of experimentation to support those concepts. As experimental techniques become more diverse and complex, it is increasingly necessary to identify individual studies that have a broad impact on our understanding of cell biology. This text describes in detail some of the key experimental findings, along with the original data and figures.

A look at the seven emotional systems of the brain by the researcher who discovered them. What makes us happy? What makes us sad? How do we

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come to feel a sense of enthusiasm? What fills us with lust, anger, fear, or tenderness? Traditional behavioral and cognitive neuroscience have yet to provide satisfactory answers. The Archaeology of Mind presents an affective neuroscience approach—which takes into consideration basic mental processes, brain functions, and emotional behaviors that all mammals share—to locate the neural mechanisms of emotional expression. It reveals—for the first time—the deep neural sources of our values and basic emotional feelings. This book elaborates on the seven emotional systems that explain how we live and behave. These systems originate in deep areas of the brain that are remarkably similar across all mammalian species. When they are disrupted, we find the origins of emotional disorders: - SEEKING: how the brain generates a euphoric and expectant response - FEAR: how the brain responds to the threat of physical danger and death - RAGE: sources of irritation and fury in the brain - LUST: how sexual desire and attachments are elaborated in the brain - CARE: sources of maternal nurturance - GRIEF: sources of non-sexual attachments - PLAY: how the brain generates joyous, rough-and-tumble interactions - SELF: a hypothesis explaining how affects might be elaborated in the brain The book offers an evidence-based evolutionary taxonomy of emotions and affects and, as such, a brand-new

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clinical paradigm for treating psychiatric disorders in clinical practice.

Linear algebra provides the essential mathematical tools to tackle all the problems in Science.

Introduction to Linear Algebra is primarily aimed at students in applied fields (e.g. Computer Science and Engineering), providing them with a concrete, rigorous approach to face and solve various types of problems for the applications of their interest. This book offers a straightforward introduction to linear algebra that requires a minimal mathematical background to read and engage with. Features

Presented in a brief, informative and engaging style

Suitable for a wide broad range of undergraduates

Contains many worked examples and exercises

Evidence-based practice has become a central part of physiotherapy today, but it is still an area which is constantly expanding and being updated. Written by an international team of experts, this second edition continues to outline the basic definitions of evidence-based practice and clinical reasoning, while detailing how to find and critically appraise evidence and clinical practice guidelines and the steps to follow in the implementation and evaluation of evidence. For those struggling to understand both the concepts and how to implement them, this book will prove to be an invaluable and practical guide. Considers how both quantitative and qualitative research can be used to answer clinical questions Written for readers

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with different levels of expertise Highlighted critical points and text box summaries (basic) Detailed explanations in text (intermediate) Footnotes (advanced) Presents detailed strategies for searching physiotherapy-relevant databases Extensive consideration of clinical practice guidelines Chapter asking the question: When and how should new therapies be introduced into clinical practice? Search strategies Evaluating quality of interventions Placebo effects Meta-regression What is healing? What really determines it? How can we make it happen? It is increasingly clear that there is not just one single kind of medicine and that paths to healing flow through the integration of multiple pieces of knowledge and the combination of many perspectives. In light of the latest research into neurophysiology, psyche science and quantum physics, this book outlines the seven principles of the powerful interaction between psyche and body in healing processes, providing scientific answers to questions about the mechanisms which trigger it and identifying therapies that allow us to turn these internal switches on. This is demonstrated through reflections, examples, and real cases shared by the author, a psychiatrist and doctor who has completed several rigorous trainings but maintains an open mind and has been committed for more than 15 years to seek healing of serious illnesses in the psychosomatic unit by using therapeutic synergies

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that strengthen official care practices with innovative treatments, with her passionate work to painlessly repair suffering, with the patient, or rather the person, always and constantly at the centre. In this unprecedented history of a scientific revolution, award-winning author and journalist Carl Zimmer tells the definitive story of the dawn of the age of the brain and modern consciousness. Told here for the first time, the dramatic tale of how the secrets of the brain were discovered in seventeenth-century England unfolds against a turbulent backdrop of civil war, the Great Fire of London, and plague. At the beginning of that chaotic century, no one knew how the brain worked or even what it looked like intact. But by the century's close, even the most common conceptions and dominant philosophies had been completely overturned, supplanted by a radical new vision of man, God, and the universe. Presiding over the rise of this new scientific paradigm was the founder of modern neurology, Thomas Willis, a fascinating, sympathetic, even heroic figure at the center of an extraordinary group of scientists and philosophers known as the Oxford circle. Chronicled here in vivid detail are their groundbreaking revelations and the often gory experiments that first enshrined the brain as the physical seat of intelligence -- and the seat of the human soul. *Soul Made Flesh* conveys a contagious appreciation for the brain, its structure,

and its many marvelous functions, and the implications for human identity, mind, and morality. This ambitious work aims to shed new light on the relations between Husserlian phenomenology and the present-day efforts toward a scientific theory of cognition—with its complex structure of disciplines, levels of explanation, and conflicting hypotheses. The book's primary goal is not to present a new exegesis of Husserl's writings, although it does not dismiss the importance of such interpretive and critical work. Rather, the contributors assess the extent to which the kind of phenomenological investigation Husserl initiated favors the construction of a scientific theory of cognition, particularly in contributing to specific contemporary theories either by complementing or by questioning them. What clearly emerges is that Husserlian phenomenology cannot become instrumental in developing cognitive science without undergoing a substantial transformation. Therefore, the central concern of this book is not only the progress of contemporary theories of cognition but also the reorientation of Husserlian phenomenology. Because a single volume could never encompass the numerous facets of this dual aim, the contributors focus on the issue of naturalization. This perspective is far-reaching enough to allow for the coverage of a great variety of topics, ranging from general structures of intentionality, to the nature of the founding

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epistemological and ontological principles of cognitive science, to analyses of temporality and perception and the mathematical modeling of their phenomenological description. This book, then, is a collective reflection on the possibility of utilizing a naturalized Husserlian phenomenology to contribute to a scientific theory of cognition that fills the explanatory gap between the phenomenological mind and brain.

Why do people go to the movies? What does it mean to watch a movie? To what extent is the perceived fictional nature of movies different from our daily perception of the real world? We live in a time where the power of images has strongly invaded our everyday life, and we need new instruments and methods to better understand our relationship with the virtual worlds we inhabit every day. Taking cinema as the beginning of our relationship with the world of moving images, and cognitive neuroscience as a paradigm to understand how the images engage us, *The Empathic Screen* develops a new theory of film experience, exploring our brain-body interaction when engaging with and watching a film. In this book, film theory and neuroscience meet to shed new light on cinema masterpieces, such as *The Shining*, *The Silence of the Lambs*, and *Toy Story*, and explore the great directors from the classical period to the present. Taking a radical new approach to understanding the cinema, the book will be fascinating reading for cognitive scientists, neuroscientists, psychologists, philosophers, and film and media scholars.

Retraces the history of postmodern philosophy and proposes solutions to overcome its impasses. Philosophical realism has taken a number of different forms, each applied to different

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topics and set against different forms of idealism and subjectivism. Maurizio Ferraris's Manifesto of New Realism takes aim at postmodernism and hermeneutics, arguing against their emphasis on reality as constructed and interpreted. While acknowledging the value of these criticisms of traditional, dogmatic realism, Ferraris insists that the insights of postmodernism have reached a dead end. Calling for the discipline to turn its focus back to truth and the external world, Ferraris's manifesto—which sparked lively debate in Italy and beyond—offers a wiser realism with social and political relevance. “In the new atmosphere of Anglophone continental thought, realism is not just a viable option but is arguably home to the most promising innovations of our time. Ferraris will serve as a welcome new influence.” — from the Foreword by Graham Harman

The English edition of this book has been prepared from the third German edition published in December 1974. The first two German editions, published in 1971 and 1972, respectively, were very well received in Germany. We hope that this English version will enjoy a similar popularity by students wishing to understand the essential concepts relevant to the fascinating field of neurophysiology. The evolution of this book has been unique. The first edition was based on a series of lectures presented for many years to first-year physiology students at the Universities of Heidelberg and Mannheim. These lectures were converted into a series of 38 programmed texts, and after extensive testing, published as a programmed textbook of neurophysiology (Neurophysiologie programmiert, Springer-Verlag Heidelberg, 1971). Thereafter the present text was written and thoroughly brought up to date. Throughout this period all of the authors were members of the Department of Physiology in Heidelberg allowing for maximum cooperation at all stages of this endeavor. With regard to the English edition, I wish to express my apprecia

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tion to Mr. Derek Jordan and Mrs. Inge Jordan for translating this book, and to my colleagues Dr. Mark Rowe and Dr. Dean O. Smith for their valuable comments and suggestions on the English manuscript. I express my grateful thanks to the publishers, both in Heidelberg and New York, for their unfailing courtesy and for their extraordinary efficiency.

This book deals with the results of theoretical and experimental studies of the emotions which my colleagues and I carried out over the last two decades. An interest in the psychology of emotions prompted us to undertake an analysis of the creative legacy of K. S. Stanislavsky. A result of this analysis was the book, *The Method of K. S.*

*StanisZavsky and the PhysioZogy of Emotions*, written in 1955-1956 and published by the Academy of Sciences of the USSR in 1962. I am grateful to the first reader and critic of the manuscript, Leon Abgarovich Orbeli. In 1960, having transferred to the Institute of Higher Nervous Activ ity and Neurophysiology of the Academy of Sciences of the USSR, I had the opportunity to conduct experiments on prob lems that had interested me for a long time. In close scien tific association with Peter Mikhailovich Ershov, director and teacher of theater, I began a systematic study of the in voluntary and electrophysiological shifts in actors during voluntary production of various emotional states. Here comparatively quickly we became convinced that the fruitfulness of such studies rests on an absence of any kind of developed, systematic, and sound generaZ theory of the emotions of man and the higher mammals. We will illustrate our difficulties if only with one example. We had frequently read of the so-called "emotional memory.

Fondamenti di neuroscienzeThe Empathic ScreenCinema and NeuroscienceOxford University Press

The acclaimed New York Times and Wall Street Journal bestseller from Robert Cialdini—"the foremost expert on

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effective persuasion” (Harvard Business Review)—explains how it’s not necessarily the message itself that changes minds, but the key moment before you deliver that message. What separates effective communicators from truly successful persuaders? With the same rigorous scientific research and accessibility that made his *Influence* an iconic bestseller, Robert Cialdini explains how to prepare people to be receptive to a message before they experience it. Optimal persuasion is achieved only through optimal pre-suasion. In other words, to change “minds” a pre-suader must also change “states of mind.” Named a “Best Business Books of 2016” by the Financial Times, and “compelling” by The Wall Street Journal, Cialdini’s *Pre-Suasion* draws on his extensive experience as the most cited social psychologist of our time and explains the techniques a person should implement to become a master persuader. Altering a listener’s attitudes, beliefs, or experiences isn’t necessary, says Cialdini—all that’s required is for a communicator to redirect the audience’s focus of attention before a relevant action. From studies on advertising imagery to treating opiate addiction, from the annual letters of Berkshire Hathaway to the annals of history, Cialdini outlines the specific techniques you can use on online marketing campaigns and even effective wartime propaganda. He illustrates how the artful diversion of attention leads to successful pre-suasion and gets your targeted audience primed and ready to say, “Yes.” His book is “an essential tool for anyone serious about science based business strategies...and is destined to be an instant classic. It belongs on the shelf of anyone in business, from the CEO to the newest salesperson” (Forbes).

In *How Math Explains the World*, mathematician Stein reveals how seemingly arcane mathematical investigations and discoveries have led to bigger, more world-shaking insights into the nature of our world. In the four main sections of the

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book, Stein tells the stories of the mathematical thinkers who discerned some of the most fundamental aspects of our universe. From their successes and failures, delusions, and even duels, the trajectories of their innovations—and their impact on society—are traced in this fascinating narrative. Quantum mechanics, space-time, chaos theory and the workings of complex systems, and the impossibility of a "perfect" democracy are all here. Stein's book is both mind-bending and practical, as he explains the best way for a salesman to plan a trip, examines why any thought you could have is imbedded in the number  $p$ , and—perhaps most importantly—answers one of the modern world's toughest questions: why the garage can never get your car repaired on time. Friendly, entertaining, and fun, *How Math Explains the World* is the first book by one of California's most popular math teachers, a veteran of both "math for poets" and Princeton's Institute for Advanced Studies. And it's perfect for any reader wanting to know how math makes both science and the world tick.

Who's that singing on the savannah? It's the top-five ugly animals in Africa! The wildebeest, warthog, vulture, hyena and marabou stork swagger proudly across the savannah, rejoicing in their ugliness - and delighting their babies, who think they're perfect just the way they are. From the world's bestselling programming author Using the practical pedagogy that has made his other *Beginner's Guides* so successful, Herb Schildt provides new Swing programmers with a completely integrated learning package. Perfect for the classroom or self-study, *Swing: A Beginner's Guide* delivers the appropriate mix of theory and practical coding. You will be programming as early as Chapter 1.

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A provocative look at the new, digital landscape of childhood and how to navigate it. In *The New Childhood*, Jordan Shapiro provides a hopeful counterpoint to the fearful hand-wringing that has come to define our narrative around children and technology. Drawing on groundbreaking research in economics, psychology, philosophy, and education, *The New Childhood* shows how technology is guiding humanity toward a bright future in which our children will be able to create new, better models of global citizenship, connection, and community. Shapiro offers concrete, practical advice on how to parent and educate children effectively in a connected world, and provides tools and techniques for using technology to engage with kids and help them learn and grow. He compares this moment in time to other great technological revolutions in humanity's past and presents entertaining micro-histories of cultural fixtures: the sandbox, finger painting, the family dinner, and more. But most importantly, *The New Childhood* paints a timely, inspiring and positive picture of today's children, recognizing that they are poised to create a progressive, diverse, meaningful, and hyper-connected world that today's adults can only barely imagine.

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purchased when required by an instructor. -- For courses in cell biology. Widely praised for its strong biochemistry coverage, Becker's World of the Cell, Eighth Edition, provides a clear, up-to-date introduction to cell biology concepts, processes, and applications. Informed by many years of teaching the introductory cell biology course, the authors have added new emphasis on modern genetic/genomic/proteomic approaches to cell biology while using clear language to ensure that students comprehend the material. Becker's World of the Cell provides accessible and authoritative descriptions of all major principles, as well as unique scientific insights into visualization and applications of cell biology. Media icons within the text and figures call attention to an enhanced media selection—350 up-to-date animations, videos, and activities—that helps students visualize concepts. The Becker World of the Cell 8e Technology Update brings the power of MasteringBiology to Cell Biology for the first time. MasteringBiology is an online homework, tutorial and assessment system that delivers self-paced tutorials that provide individualized coaching, focus on your course objectives, and are responsive to each student's progress. The Mastering system helps instructors maximize class time with customizable, easy-to-assign, and automatically graded assessments that motivate students to learn outside of class and arrive prepared for lecture.

Neuronal cells (neurons) mainly transmit signals by action potentials or spikes. Neuronal electrical activity is recorded from experimental animals

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by microelectrodes placed in specific brain areas. These electrochemical fast phenomena occur as all-or-none events and can be analyzed as boolean sequences. Following this approach, several computational analyses reported most variable neuronal behaviors expressed through a large variety of firing patterns [13].

These patterns have been modeled as symbolic strings with a number of different techniques [23, 55]. The results obtained with these methods come (i) from Ventrobasal Thalamic Nuclei (VB) and Somatosensory Cortex (SSI) in Chronic Pain Animals (CPAs), (ii) from Primary Visual (V1) and (SSI) in rat Cortices and, finally, (iii) from human Thalamus Nuclei in patients suffering from states of disordered consciousness like Persistent Vegetative State (PVS) and Minimum Conscious State (MCS).

Il volume illustra i fondamenti necessari per acquisire, elaborare e valutare le immagini radiologiche con un approccio interdisciplinare, che coniuga contributi di fisica, informatica biomedica e radiologia. Dopo un'introduzione al trattamento digitale di segnali e alla psicofisiologia della visione, vengono descritti i parametri caratteristici e gli indicatori di qualità delle immagini digitali, passando poi alle principali tecniche di elaborazione delle immagini, sia nel dominio spaziale sia in quello delle frequenze. Sono trattati gli algoritmi per il filtraggio, le tecniche di segmentazione, con dettaglio specifico per le diverse metodiche di imaging, concludendo con una rassegna dei principali formati di memorizzazione tra cui lo standard più diffuso per le immagini ad uso medico, il DICOM. Il testo è corredato da schede di autovalutazione ed esercizi che permettono

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di verificare il proprio livello di apprendimento dei concetti affrontati. Inoltre, a complemento dell'opera, il lettore potrà accedere, tramite un software gratuito, a un vero e proprio laboratorio di elaborazione di immagini con il quale potrà esercitarsi a riprodurre personalmente gli esempi di elaborazione illustrati. Il volume rappresenta dunque un utile riferimento per i docenti e gli studenti che affrontino la materia, ma il taglio pratico e accessibile lo rende anche un valido strumento di consultazione per tecnici radiologi, specializzandi e medici e tutti coloro che desiderino approfondire le elaborazioni che coinvolgono la diagnostica per immagini.

This textbook provides a focus on each major topic in psychobiology from five perspectives: the description; the evolution and the development of behaviour; the biological mechanisms; and the applications of biological psychology to human problems.

“My predominant feeling is one of gratitude. I have loved and been loved. I have been given much and I have given something in return. Above all, I have been a sentient being, a thinking animal, on this beautiful planet, and that in itself has been an enormous privilege and adventure.” —Oliver Sacks No writer has succeeded in capturing the medical and human drama of illness as honestly and as eloquently as Oliver Sacks. During the last few months of his life, he wrote a set of essays in which he movingly explored his feelings about completing a life and coming to terms with his own death. “It is the fate of every human being,” Sacks writes, “to be a unique individual, to find his own path, to

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live his own life, to die his own death.” Together, these four essays form an ode to the uniqueness of each human being and to gratitude for the gift of life. “Oliver Sacks was like no other clinician, or writer. He was drawn to the homes of the sick, the institutions of the most frail and disabled, the company of the unusual and the ‘abnormal.’ He wanted to see humanity in its many variants and to do so in his own, almost anachronistic way—face to face, over time, away from our burgeoning apparatus of computers and algorithms. And, through his writing, he showed us what he saw.” —Atul Gawande, author of *Being Mortal*

Recent scientific studies have brought significant advances in the understanding of basic mental functions such as memory, dreams, identification, repression, which constitute the basis of the psychoanalytical theory. This book focuses on the possibility of interactions between psychoanalysis and neuroscience: emotions and the right hemisphere, serotonin and depression. It is a unique tool for professionals and students in these fields, and for operators of allied disciplines, such as psychology and psychotherapy.

A CHOICE Magazine Outstanding Academic Title of 2018. A novel approach to understanding personality, based on evidence that we share more than we realize with other mammals. This book presents the wealth of scientific evidence that our personality emerges from evolved primary emotions shared by all mammals. Yes, your dog feels love—and many other things too. These subcortically generated emotions bias our actions, alter our perceptions, guide our learning, provide the basis for

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our thoughts and memories, and become regulated over the course of our lives. Understanding personality development from the perspective of mammals is a groundbreaking approach, and one that sheds new light on the ways in which we as humans respond to life events, both good and bad. Jaak Panksepp, famous for discovering laughter in rats and for creating the field of affective neuroscience, died in April 2017. This book forms part of his lasting legacy and impact on a wide range of scientific and humanistic disciplines. It will be essential reading for anyone trying to understand how we act in the world, and the world's impact on us.

Economic growth and the creation of wealth have cut global poverty rates, yet vulnerability, inequality, exclusion and violence have escalated within and across societies throughout the world. Unsustainable patterns of economic production and consumption promote global warming, environmental degradation and an upsurge in natural disasters. Moreover, while we have strengthened international human rights frameworks over the past several decades, implementing and protecting these norms remains a challenge. These changes signal the emergence of a new global context for learning that has vital implications for education. Rethinking the purpose of education and the organization of learning has never been more urgent. This book is inspired by a humanistic vision of education and development, based on respect for life and human dignity, equal rights, social justice, cultural diversity, international solidarity and shared responsibility for a sustainable future.

For a comprehensive understanding of human

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physiology — from molecules to systems —turn to the latest edition of Medical Physiology. This updated textbook is known for its unparalleled depth of information, equipping students with a solid foundation for a future in medicine and healthcare, and providing clinical and research professionals with a reliable go-to reference. Complex concepts are presented in a clear, concise, and logically organized format to further facilitate understanding and retention. Clear, didactic illustrations visually present processes in a clear, concise manner that is easy to understand. Intuitive organization and consistent writing style facilitates navigation and comprehension. Takes a strong molecular and cellular approach that relates these concepts to human physiology and disease. An increased number of clinical correlations provides a better understanding of the practical applications of physiology in medicine. Highlights new breakthroughs in molecular and cellular processes, such as the role of epigenetics, necroptosis, and ion channels in physiologic processes, to give insights into human development, growth, and disease. Several new authors offer fresh perspectives in many key sections of the text, and meticulous editing makes this multi-authored resource read with one unified voice. Includes electronic access to 10 animations and copious companion notes prepared by the Editors.

In this playful yet informative manifesto, a leading plant neurobiologist presents the eight fundamental pillars on which the life of plants—and by extension, humans—rests. Even if they behave as though they were, humans are not the masters of the Earth, but only one of its most

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irksome residents. From the moment of their arrival, about three hundred thousand years ago—nothing when compared to the history of life on our planet—humans have succeeded in changing the conditions of the planet so drastically as to make it a dangerous place for their own survival. The causes of this reckless behavior are in part inherent in their predatory nature, but they also depend on our total incomprehension of the rules that govern a community of living beings. We behave like children who wreak havoc, unaware of the significance of the things they are playing with. In *The Nation of Plants*, the most important, widespread, and powerful nation on Earth finally gets to speak. Like attentive parents, plants, after making it possible for us to live, have come to our aid once again, giving us their rules: the first Universal Declaration of Rights of Living Beings written by the plants. A short charter based on the general principles that regulate the common life of plants, it establishes norms applicable to all living beings. Compared to our constitutions, which place humans at the center of the entire juridical reality, in conformity with an anthropocentrism that reduces to things all that is not human, plants offer us a revolution.

Visit the Neurobiology Website at:

[www.blackwellpublishing.com/matthews](http://www.blackwellpublishing.com/matthews) As the second edition of a very successful neurobiology book, this text covers a range from molecules to systems, and uses various systems to illustrate each major concept. In addition to the text, this title offers a companion website, which features animations of difficult concepts, online assignments and practice exams, as well as all text

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figures in an easy to download format. Four colour throughout. New chapter on hypothalamic function with focus on circadian rhythms. More clinical correlation. Improved illustration quality and quantity.

Comprehensive text with excellent coverage of subjects from molecules to systems. Use of systems to illustrate each major concept.

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