

Read Book *The Sharpbrains Guide To Brain Fitness How Optimize Health And Performance At Any Age* Alvaro Fernandez

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What is your emotional fingerprint? Why are some people so quick to recover from setbacks? Why are some so attuned to others that they seem psychic? Why are some people always up and others always down? In his thirty-year quest to answer these questions, pioneering neuroscientist Richard J. Davidson discovered that each of us has an Emotional Style, composed of Resilience, Outlook, Social Intuition, Self-Awareness, Sensitivity to Context, and Attention. Where we fall on these six continuums determines our own “emotional fingerprint.” Sharing Dr. Davidson’s fascinating case histories and experiments, *The Emotional Life of Your Brain* offers a new model for treating conditions like autism and depression as it empowers us all to better understand ourselves—and live more meaningful lives.

Clear, concise, prescriptive steps for improving memory loss and keeping the brain young—from one of the world's top memory experts. Everybody forgets things sometimes—from your keys to your lunch date to the name of an

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acquaintance. According to Dr. Gary Small, the director of the UCLA Center on Aging, much of this forgetfulness can be eliminated easily through his innovative memory exercises and brain fitness program—now available for the first time in a book. Using Small's recent scientific discoveries, *The Memory Bible* can immediately improve your mental performance. One of the ten commandments that Dr. Small has pioneered to improve your memory immediately is LOOK, SNAP, CONNECT: 1: LOOK: actively observe what you want to learn 2: SNAP: create a vivid snapshot and memorable image 3: CONNECT: visualize a link to associate images In addition, Dr. Small's comprehensive program includes a "brain diet" of memory-enhancing foods and a list of the most effective drugs, as well as a workbook with a weekly and daily calendar. Remember, as Dr. Small says, "Great memories are not born, they are made."

Elkhonon Goldberg's groundbreaking *The Executive Brain* was a classic of scientific writing, revealing how the frontal lobes command the most human parts of the mind. Now he offers a completely new book, providing fresh, iconoclastic ideas about the relationship between the brain and the mind. In *The New Executive Brain*, Goldberg paints a sweeping panorama of cutting-edge thinking in cognitive neuroscience and neuropsychology, one that ranges far beyond the frontal lobes. Drawing on the latest discoveries, and developing complex

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scientific ideas and relating them to real life through many fascinating case studies and anecdotes, the author explores how the brain engages in complex decision-making; how it deals with novelty and ambiguity; and how it addresses moral choices. At every step, Goldberg challenges entrenched assumptions. For example, we know that the left hemisphere of the brain is the seat of language--but Goldberg argues that language may not be the central adaptation of the left hemisphere. Apes lack language, yet many also show evidence of asymmetric hemispheric development. Goldberg also finds that a complex interaction between the frontal lobes and the amygdala--between a recently evolved and a much older part of the brain--controls emotion, as conscious thoughts meet automatic impulses. The author illustrates this observation with a personal example: the difficulty he experienced when trying to pick up a baby alligator he knew to be harmless, as his amygdala battled his effort to extend his hand. In the years since the original *Executive Brain*, Goldberg has remained at the front of his field, constantly challenging orthodoxy. In this revised and expanded edition, he affirms his place as one of our most creative and insightful scientists, offering lucid writing and bold, paradigm-shifting ideas.

An inspiring guide to keeping your mind, body, and spirit working together to keep you sharp, healthy, and happy through life. Frustrated with your brain? How

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would you like to remember where you put your car keys? Is multitasking working for you? Do you ever wonder how you drove to your destination? If the answer is yes, you may be painfully aware of “the Fade”—the decline in mental, physical and spiritual wellness so many of us experience in our later years. But contrary to what you may have heard, it doesn’t have to be that way. Max Your Mind introduces you to “the Boost”—or the many benefits that come with maturity. With plenty of tips on how to stay sharp, this helpful guide offers a refreshingly lighthearted and spiritual perspective on this typically serious subject. Using anecdotal stories to illustrate the latest neuroscience research, Max Your Mind is full of practical information that we can apply to our everyday lives. So if you want to give your mind the wake-up call that God intended, open this book and enjoy the hope, help and humor within its pages.

Cutting-edge science and the ancient wisdom of Buddhism have come together to reveal that, contrary to popular belief, we have the power to literally change our brains by changing our minds. Recent pioneering experiments in neuroplasticity—the ability of the brain to change in response to experience—reveal that the brain is capable of altering its structure and function, and even of generating new neurons, a power we retain well into old age. The brain can adapt, heal, renew itself after trauma, compensate for disabilities,

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rewire itself to overcome dyslexia, and break cycles of depression and OCD. And as scientists are learning from studies performed on Buddhist monks, it is not only the outside world that can change the brain, so can the mind and, in particular, focused attention through the classic Buddhist practice of mindfulness. With her gift for making science accessible, meaningful, and compelling, science writer Sharon Begley illuminates a profound shift in our understanding of how the brain and the mind interact and takes us to the leading edge of a revolution in what it means to be human. Praise for Train Your Mind, Change Your Brain

“There are two great things about this book. One is that it shows us how nothing about our brains is set in stone. The other is that it is written by Sharon Begley, one of the best science writers around. Begley is superb at framing the latest facts within the larger context of the field. This is a terrific book.”—Robert M. Sapolsky, author of *Why Zebras Don't Get Ulcers* “Excellent . . . elegant and lucid prose . . . an open mind here will be rewarded.”—Discover “A strong dose of hope along with a strong dose of science and Buddhist thought.”—The San Diego Union-Tribune

Your Brain Fitness Companion: emWave and Inner Balance As you practice on the go, or at your computer, you increase your heart-brain synchronization and your ability to take charge of your mental and emotional reactions and stress.

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Mental clarity and intuition, communications, relationships and quality of life all improve. Praise for HeartMath and Brain Fitness "We have had great success using HeartMath's TestEdge Program with thousands of our students in middle and high school and we are very excited about being able to give out elementary students the same advantage." -- Kathy Reutman Bryant, executive director, student services, Boone County Schools, Kentucky "Typically, I introduce the emWave Desktop as a primary intervention to assist students in developing the self-management skills needed to cope with stress. I find it very useful because it offers visual feedback. Students see the result of their actions. And it is so easy to use." -- Vern Russell, director of Student Counseling Services, Auburn University, Auburn, Ala. www.heartmath.com 1-800-459-9111

A compendium of exercises, strategies, tips, and techniques to sharpen memory skills, Max Your Memory is the first visually led, memory-improving program to be fully illustrated with infographics. Max Your Memory helps boost memory power with techniques and tests for the ultimate brain workout. Each exercise chapter includes engaging puzzles, games, and exercises that will help sharpen one's memory in ways big and small. Self-assessments at the beginning of each chapter help readers chart their progress as they go along.

How to fix the Modern American Diet and reclaim our minds and waistlines "An

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insightful, eye opening adventure into diet and nutrition. Concise and witty, this book kept me engaged from cover to cover. A must-have for anyone serious about getting happy and healthy naturally.”—Andrew Morton, MD, Board-certified Family Physician; Former Medical Corps, US Navy and Army Infantry Medic, Desert Storm For the first time in history, too much food is making us sick. The Modern American Diet (MAD) is expanding our waistlines while starving and shrinking our brains. Rates of obesity and depression have recently doubled, and though these epidemics are closely linked, few experts are connecting the dots for the average American. Using data from the rapidly changing fields of neuroscience and nutrition, The Happiness Diet shows that over the past several generations, small, seemingly insignificant changes to our diet have stripped it of nutrients—like magnesium, vitamin B12, iron, and vitamin D, as well as some very special fats—that are essential for happy, well-balanced brains. These shifts also explain the overabundance of mood-destroying foods in the average American’s diet and why they predispose most of us to excessive weight gain. After a clear explanation of how we’ve all been led so far astray, The Happiness Diet empowers the reader to steer clear of this MAD way of life with simple, straightforward solutions, including:

- A list of foods to swear off
- Shopping tips and kitchen organization tricks
- A compact healthy cookbook full of brain-

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building recipes • Practical advice, meal plans, and more! Graham and Ramsey guide you through these steps and then remake your diet by doubling down on feel-good foods—even the all-American burger. Praise for The Happiness Diet “Finally, a rock-solid, reliable, informative, and entertaining book on how to eat your way to health and happiness. Run—don’t walk—to read and adopt The Happiness Diet. This is the only diet book I’ve encountered that I can actually recommend to patients without reservation.”—Bonnie Maslin, PhD, Psychologist and author of Picking Your Battles “A lively, thorough, and iron-clad case for real food. You will never eat an egg-white omelet or soy protein shake again.”—Nina Planck, author of Real Food and Real Food for Mother and Baby “The book includes food lists, shopping tips, brain-building recipes, smart slimming strategies, and other useful tools to lose weight and keep the blues at bay.”—AM New York

Supporting teacher learning is a complicated and challenging task. This much-awaited book offers a practical, research-based framework for thinking about instructional leadership, along with the necessary resources and tools for improving practice. The authors identify specific structures, formats, and strategies that an instructional leader can use to support new and veteran principals and teacher leaders. They then discuss ways to think about which structures are most appropriate for particular settings,

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offering suggestions on the most effective way to work with these structures. This unique book combines theory with best practices to create a vision of how 21st-century instructional leaders can improve education for all students. This practical book: Describes a unique, adult learning framework. Includes a variety of tools and protocols that leaders can use to support teacher learning in schools, districts, departments, and teams. Offers instructional leaders both theory and practice—the what to do and also the why and how. Addresses a broad spectrum of instructional leaders at the district, school, and university level. “Students everywhere deserve teachers and administrators who have read this book, and who enact the ideas in it. It is a must read for principals, district level administrators, teacher leaders, instructional coaches and mentors - anyone charged with leading the learning of adults in their schools.” —Gene Thompson-Grove, Educational Consultant and Board Member, SchoolReform Initiative “Leading for Powerful Learning is the book every school leader needs. It provides the essential tools for carrying out what is arguably the school leader's most difficult task: supporting the learning of the teachers with whom they work. The authors' insights and practical wisdom, drawn from their decades of experience in schools, will be useful not only to formal school leaders but to those serving as leaders in more informal ways.” —Tina Blythe, Harvard Graduate School of Education “Fascinating. Doidge's book is a remarkable and hopeful portrait of the endless adaptability of the human brain.”—Oliver Sacks, MD, author of *The Man Who Mistook*

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His Wife for a Hat What is neuroplasticity? Is it possible to change your brain? Norman Doidge's inspiring guide to the new brain science explains all of this and more An astonishing new science called neuroplasticity is overthrowing the centuries-old notion that the human brain is immutable, and proving that it is, in fact, possible to change your brain. Psychoanalyst, Norman Doidge, M.D., traveled the country to meet both the brilliant scientists championing neuroplasticity, its healing powers, and the people whose lives they've transformed—people whose mental limitations, brain damage or brain trauma were seen as unalterable. We see a woman born with half a brain that rewired itself to work as a whole, blind people who learn to see, learning disorders cured, IQs raised, aging brains rejuvenated, stroke patients learning to speak, children with cerebral palsy learning to move with more grace, depression and anxiety disorders successfully treated, and lifelong character traits changed. Using these marvelous stories to probe mysteries of the body, emotion, love, sex, culture, and education, Dr. Doidge has written an immensely moving, inspiring book that will permanently alter the way we look at our brains, human nature, and human potential.

An easy-to-follow, research-based guide to the simple, low-cost choices that give the reader the power to reduce the risk of developing Alzheimer's disease and dementia; slow the progression of the disease; and mitigate symptoms and improve well-being. Did you know that getting on the treadmill can help keep your brain sharp? Or that repeatedly staying up to catch the late show could increase the likelihood of being

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struck down by dementia? The dozens of choices you make over the course of any average day—ordering the curry versus the burger with fries, taking the stairs versus the elevator—all add up. Together with your family history, they establish your chances of getting Alzheimer's years from now. No drugs or procedures can cure or even effectively treat Alzheimer's yet. But you have the power to help reduce your risk of ever getting this terrifying disease. Based on the latest scientific research, *Outsmarting Alzheimer's* gives you 80 simple lifestyle prescriptions in the six key areas with the most scientific evidence for protecting your brain health: S = Social Smarts M = Meal Smarts A = Aerobic Smarts R = Resilience Smarts T = Train-Your-Brain Smarts S = Sleep Smarts These easy, low-cost, and fun brain-boosting activities can help you delay or even avoid the onset of Alzheimer's disease and dementia, mitigating symptoms like forgetfulness or depression and sharpening your mental edge. With a personalized 3-week plan that includes recipes, brain games, and exercises, along with advice for caregivers, *Outsmarting Alzheimer's* is your best shot at staying sharp and vibrant for life.

Coaching Brain in Mind Foundations for Practice David Rock and Linda J. Page, PhD Discover the science behind brain-based coaching By understanding how the brain works, coaching professionals can better tailor their language, strategies, and goals to be in alignment with an individual's "hard-wired" way of thinking. Written by two well-known coaching professionals, David Rock and Linda Page, *Coaching with the Brain in*

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Mind presents the tools and methodologies that can be employed by novice and experienced coaches alike to create an effective—and ultimately more rewarding—relationship for both coach and client. This informative guide to the neuroscience of coaching clearly demonstrates how brain-based coaching works in practice, and how the power of the mind can be harnessed to help an individual learn and grow. Illustrated with numerous case examples and stories, this book is organized for immediate use by professionals in their client work. Coverage includes: A succinct but comprehensive overview of the major scientific and theoretical foundations for coaching and their implications for practice How the language of coaching—setting goals, making connections, becoming more aware, seeking breakthroughs, and taking action—parallels what neuroscientists tell us about how the brain operates Neuroscience as a natural platform for the ongoing development of coaching Building on the existing foundation of coaching by adding neuroscience as an evidence base for the profession, Coaching with the Brain in Mind shows that it is possible to become a better professional coach by understanding how the brain works. As well, the authors, through their research, present that an understanding of neuroscience research, however new and speculative, can help coaches and leaders fulfill their potential as change agents in the lives of others.

An illustrated guide to the brain's development and functions presents accessible coverage of how the brain works and the latest scientific discoveries, sharing lifestyle

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tips on how to promote brain health through exercise, nutrition, and specific bolstering activities.

Draws on the latest scientific discoveries to outline tests and exercises for improving cognitive fitness, in a reference that focuses on recent understandings about the frontal lobe to explain how to promote brain health at any age.

The acclaimed author of *How We Age*, whose "descriptive powers are a gift to readers" (Sherwin Nuland), presents a hopeful and practical model of aging--a guide to understanding how we can all make the journey better. As one of America's leading geriatric psychiatrists, Dr. Marc Agronin sees both the sickest and the healthiest of seniors. He observes what works to make their lives better and more purposeful and what doesn't. Many authors can talk about aging from their particular vantage points, but Dr. Agronin is on the front lines as he counsels and treats elderly individuals and their loved ones on a daily basis. The latest scientific research and Dr. Agronin's first-hand experience are brilliantly distilled in *The End of Old Age*--a call to no longer see aging as an implacable enemy and to start seeing it as a developmental force for enhancing well-being, meaning, and longevity. Throughout *The End of Old Age*, the focus is squarely on "So what does this mean for me and my family?" In the final part of the book, Dr. Agronin provides simple but revealing charts that you can fill out to identify, develop, and optimize your unique age-given strengths. It's nothing short of an action plan to help you age better by improving how you value the aging process, guide

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yourself through stress, and find ways to creatively address change for the best possible experience and outcome.

As the pace of technological change accelerates, we are increasingly experiencing a state of information overload. In *The Overflowing Brain*, cognitive scientist Torkel Klingberg takes us on a journey into the limits and possibilities of the brain. He suggests that we should acknowledge and embrace our desire for information and mental challenges, but try to find a balance between demand and capacity.

Collects articles from *Scientific American* that provide details on the latest brain science and research.

Are we all at the mercy of our brain chemistry? Do you think that the amygdala and the hippocampus are fantastical sea monsters? What can an MRI scan tell us? Could you explain to dinner-party guests why we don't giggle when we tickle ourselves? *30-Second Brain* is here to fill your mind with the science of exactly what's happening inside your head. Using no more than two pages, 300 words and an illustration, this is the quickest way to understand the wiring and function of the most complex and intricate mechanism in the human body. Discover how the networks of 90 billion nerve cells work together to produce perception, action, cognition and emotion. Explore how your brain defines your personality, and what it gets up to while you are asleep. Illustrated with mind-bending graphics and

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supported by biographies of pioneers in the field of neuroscience, it's the book to get your grey matter thinking about your grey matter.

Leadership can be learned: new evidence from neuroscience clearly points to ways that leaders can significantly improve how they engage with and motivate others. This book provides leaders and managers with an accessible guide to practical, effective actions, based on neuroscience.

While most of us have heard the phrase “use it or lose it,” very few understand what “it” means, or how to properly “use it” in order to maintain brain function and fitness. The SharpBrains Guide to Brain Fitness is an invaluable guide that helps readers navigate growing brain research and identify the lifestyle factors and products that contribute to brain fitness. By gathering insights from eighteen of the world's top scientists and offering tools and detailed descriptions of over twenty products, this book is an essential guide to the field of brain fitness, neuroplasticity and cognitive health.

The Sharpbrains Guide to Brain Fitness How to Optimize Brain Health and Performance at Any Age Sharpbrains Incorporated

What is the nature of human creativity? What are the brain processes behind its mystique? What are the evolutionary roots of creativity? How does culture help shape individual creativity? Creativity: The Human Brain in the Age of Innovation

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by Elkhonon Goldberg is arguably the first ever book to address these and other questions in a way that is both rigorous and engaging, demystifying human creativity for the general public. The synthesis of neuroscience and the humanities is a unique feature of the book, making it of interest to an unusually broad range of readership. Drawing on a number of cutting-edge discoveries from brain research as well as on his own insights as a neuroscientist and neuropsychologist, Goldberg integrates them with a wide-ranging discussion of history, culture, and evolution to arrive at an original, compelling, and at times provocative understanding of the nature of human creativity. To make his argument, Goldberg discusses the origins of language, the nature of several neurological disorders, animal cognition, virtual reality, and even artificial intelligence. In the process, he takes the reader to different times and places, from antiquity to the future, and from Western Europe to South-East Asia. He makes bold predictions about the future directions of creativity and innovation in society, their multiple biological and cultural roots and expressions, about how they will shape society for generations to come, and even how they will change the ways the human brain develops and ages.

Easy-to-understand science-based strategies to maximize your brain's potential. Concerns about memory and other thinking skills are common, particularly in

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middle age and beyond. Due to worries about declining brain health, some seek out dubious products or supplements purportedly designed to improve memory and other cognitive abilities. Fortunately, scientific research has uncovered a clear-cut set of evidence-based activities and lifestyle choices that are inexpensive or free and known to promote brain and cognitive functioning. John Randolph translates this science in an engaging and accessible way, including the brain-boosting effects of exercise, social activity, mental stimulation, task management strategies, nutrition, and positive self-care. Interwoven with lessons from neuroscience, positive psychology, social and clinical psychology, and habit formation research are powerful self-coaching exercises designed to help the reader incorporate lifestyle changes that promote brain health.

Experts from Duke University offer a groundbreaking study of the devastating ailment of Alzheimer's, furnishing the latest information and suggestions on diagnosis, medical treatments for early to moderate Alzheimer's, how to cope with the behavioral and emotional changes that occur in patients, clinical trials, and future research trends. 50,000 first printing.

The words are on the tip of your tongue, but you just can't quite remember them. You've been there a hundred times, so why did you take the wrong turn?

Outwardly, as people age they may be looking and feeling younger than their

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parents' generation--60 is the new 40, after all--but mental decline can begin as early as age 30, and it will impact everyone at some point. The increasing rate of dementia is sobering, and the personal, financial, and societal stakes are high. The good news is, just like diet and exercise can keep aging bodies healthier, the proper mental regimen can slow--even reverse--the deterioration of our mental capacity. In this practical and hopeful book, Dr. Frank Minirth gives readers trustworthy scientific insights, helpful assessments to measure mental sharpness, and proven strategies to preserve focus, memory, and brain power at every age. Each chapter includes brain boosters, exercises, and challenges, as well as engaging personal stories.

This text presents current information about communicable and chronic diseases and their histories from a nonclinical point of view. Including an overview of the principles of disease occurrence and of the body's defenses, this text provides details and stimulating information regarding the body's vulnerability to disease. Understanding how the brain learns helps teachers do their jobs more effectively. Primary researchers share the latest findings on the learning process and address their implications for educational theory and practice. Explore applications, examples, and suggestions for further thought and research; numerous charts and diagrams; strategies for all subject areas; and new ways of

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thinking about intelligence, academic ability, and learning disability.

Expert advice on how to ward off memory loss and dementia Beginning with a diagnostic quiz to help you determine your overall brain health, and ending with meal plans and recipes for a brain boosting diet, Save Your Brain is an easy-to-follow comprehensive guide to getting the brain in the best shape possible, and keeping it there-for life! Doing the daily crossword puzzle and drinking Ginko Biloba may not be enough in fighting off mental decline. Alzeimers and Dementia are on the rise but clinical neuropsychologist David Nussbaum presents a comprehensive 5-part program for keeping brains operating at their best and fighting off these debilitating diseases. The author presents concrete, actionable tips to help you improve your: Physical Mental Social Spiritual Nutritional This is a complete system for getting the brain in the best shape possible and keeping it there for life. Our brains can remain as strong and as sharp at seventy as they were by twenty by following Dr. Nussbaum's 5 essential steps.

Late life is characterized by great diversity in memory and other cognitive functions. Although a substantial proportion of older adults suffer from Alzheimer's disease or another form of dementia, a majority retain a high level of cognitive skills throughout the life span. Identifying factors that sustain and enhance cognitive well-being is a growing area of original and translational

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research. In 2009, there are as many as 5.2 million Americans living with Alzheimer's disease, and that figure is expected to grow to as many as 16 million by 2050. One in six women and one in 10 men who live to be at least age 55 will develop Alzheimer's disease in their remaining lifetime. Approximately 10 million of the 78 million baby boomers who were alive in 2008 can expect to develop Alzheimer's disease. Seventy percent of people with Alzheimer's disease live at home, cared for by family and friends. In 2008, 9.8 million family members, friends, and neighbors provided unpaid care for someone with Alzheimer's disease or another form of dementia. The direct costs to Medicare and Medicaid for care of people with Alzheimer's disease amount to more than \$148 billion annually (from Alzheimer's Association, 2008 Alzheimer's Disease Facts and Figures). This book will highlight the research foundations behind brain fitness interventions as well as showcase innovative community-based programs to maintain and promote mental fitness and intervene with adults with cognitive impairment. The emphasis is on illustrating the nuts and bolts of setting up and utilizing cognitive health programs in the community, not just the laboratory. "Using charts, drawings, and up-to-date scientific studies, they present the case that any brain, at any age, can change for the better...The authors suggest myriad activities to help the process along...(This is) A stimulating, challenging

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resource, full of solid information and practical tips for improving brain health." -Kirkus Reviews Modern life places extraordinary demands on our brains. Not only do we live longer than ever before, but we must constantly adapt to complex and rapidly evolving personal and professional realities. Yet, we often ignore our most precious resource to do so: our brain. The SharpBrains Guide to Brain Fitness cuts through the clutter of misconceptions, superficial and conflicting media coverage, and aggressive marketing claims, to help readers discover what really works, and what doesn't, to improve brain health and performance at any age, to delay or prevent cognitive decline, and become smarter consumers of both media coverage and scientific research in the process. With useful, pragmatic and personalized tips and suggestions that are easy to implement, the SharpBrains Guide offers a groundbreaking new approach for self-assessing current brain fitness needs and identifying the most relevant and evidence-based methods to preserve and enhance brain function throughout life. Whether your goal is to become more resilient, enhance memory, ward off Alzheimer's disease, or simply improve mental focus to perform better at work, this how-to guide shows you exactly how to "use it or lose it." This new and much-expanded edition of the guide AARP named a Best Book on Brain Fitness combines a user-friendly tutorial on how the brain works with advice on how to choose and integrate

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lifestyle changes and research-based brain training. Featuring an independent analysis of hundreds of scientific studies published in the last 10 years, the book also includes in-depth interviews with 20 leading scientists who often challenge conventional wisdom and prevailing brain health thinking and care. A thought-provoking, practical and captivating read, the SharpBrains Guide makes the fascinating and complex subject of brain function and neuroplasticity easy to digest with its common sense approach. It's time to rethink, and to truly apply, "use it or lose it." PRAISE FOR THE BOOK "One of those books you cannot ignore. Insightful, to the point, actionable. A book for leaders, innovators, thought provokers and everyone who wants to act and live smarter and healthier, based on latest neuroscience." -Dr. Tobias Kiefer, Director Global Learning & Development, Booz & Company "A great start for making sense new brain science and for taking active steps towards smart health, at the individual level, and Smart Health, at the societal level." -Misha Pavel, PhD, Program Director for the National Science Foundation's Smart Health and Wellbeing Program "This is the book you need to begin to think differently about your brain and actively embrace the exciting and promising reality that your brain's health is the cause of the century." -Sandra Bond Chapman, PhD, Founder and Chief Director, UT-Dallas' Center for BrainHealth "An essential reference on the field of brain fitness,

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neuroplasticity and cognitive health" -Walter Jessen, PhD, founder and editor, Highlight Health "A much-needed resource to help us better understand our brains and minds and how to nourish them through life." -Susan E. Hoffman, Director, Osher Lifelong Learning Institute at UC Berkeley"

Leading scientists and science writers reflect on the life-changing, perspective-changing, new science of human goodness. In these pages you will hear from Steven Pinker, who asks, "Why is there peace?"; Robert Sapolsky, who examines violence among primates; Paul Ekman, who talks with the Dalai Lama about global compassion; Daniel Goleman, who proposes "constructive anger"; and many others. Led by renowned psychologist Dacher Keltner, the Greater Good Science Center, based at the University of California in Berkeley, has been at the forefront of the positive psychology movement, making discoveries about how and why people do good. Four times a year the center publishes its findings with essays on forgiveness, moral inspiration, and everyday ethics in Greater Good magazine. The best of these writings are collected here for the first time. A collection of personal stories and empirical research, The Compassionate Instinct will make you think not only about what it means to be happy and fulfilled but also about what it means to lead an ethical and compassionate life.

Most of us have no idea what's really going on inside our heads. Yet brain

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scientists have uncovered details every business leader, parent, and teacher should know—like the need for physical activity to get your brain working its best. How do we learn? What exactly do sleep and stress do to our brains? Why is multi-tasking a myth? Why is it so easy to forget—and so important to repeat new knowledge? Is it true that men and women have different brains? In *Brain Rules*, Dr. John Medina, a molecular biologist, shares his lifelong interest in how the brain sciences might influence the way we teach our children and the way we work. In each chapter, he describes a brain rule—what scientists know for sure about how our brains work—and then offers transformative ideas for our daily lives. Medina’s fascinating stories and infectious sense of humor breathe life into brain science. You’ll learn why Michael Jordan was no good at baseball. You’ll peer over a surgeon’s shoulder as he proves that most of us have a Jennifer Aniston neuron. You’ll meet a boy who has an amazing memory for music but can’t tie his own shoes. You will discover how: Every brain is wired differently

Exercise improves cognition We are designed to never stop learning and exploring Memories are volatile Sleep is powerfully linked with the ability to learn Vision trumps all of the other senses Stress changes the way we learn In the end, you’ll understand how your brain really works—and how to get the most out of it.

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Have you ever found yourself puzzled by an inability to act on something important that seems logically within your reach? Do you notice that invisible barriers seem to keep you from making desired changes? Some of these roadblocks may seem minor, others insurmountable. Now you can get past them by hacking into the hidden regions of your mind that influence your daily life. Live Empowered! is a different kind of self-help resource. No simple solutions here. Dr. Julie Lopez offers valuable information on the neuropsychology surrounding implicit memory, the past experiences you can't recall but which remain stored deep within your subconscious mind. Dr. Julie offers a comprehensive primer on emerging brain- and body-based tools that can help you overcome what is holding you back, all delivered in an easy-to-follow format. Whether you're facing a small obstacle or a large one, conquering it is now within your reach. Made up of fascinating histories and anecdotes, Goldberg's book offers a panorama of state-of-the-art ideas and advances in cognitive neuroscience to show the importance of the human brain's frontal lobes. 3 halftones. Illustrations & graphs.

Cognitive reserve has emerged as a powerful concept for interpreting individual differences in susceptibility to, and recovery from, brain injury or pathology. Underlying cognitive reserve is the idea that individual differences in how cognitive tasks are mediated in the brain allow some people to cope with pathology to a greater degree than others. Cognitive Reserve: Theory and Applications describes in depth the source of these individual differences. This volume provides a comprehensive review of theory, research and clinical application of the cognitive reserve. Chapters explore the theoretical underpinnings of cognitive reserve, and evidence for its existence. Various approaches for studying this concept are addressed, including epidemiologic, cognitive experimental, and neuroimaging. Possible genetic and physiologic

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underpinnings of cognitive reserve are presented. Application of this concept to a wide range of situations, including child development, aging, Alzheimer's disease, stroke, HIV, and head injury is discussed. The result is an up-to-date, global treatment of cognitive reserve that will be of interest to someone new to the concept or the experienced investigator.

The Wisdom Paradox explores the aging of the mind from a unique, positive perspective. In an era of increasing fears about mental deterioration, world-renowned neuropsychologist Elkhonon Goldberg provides startling new evidence that though the brain diminishes in some tasks as it ages, it gains in many ways. Most notably, it increases in what he terms "wisdom": the ability to draw upon knowledge and experience gained over a lifetime to make quick and effective decisions. Goldberg delves into the machinery of the mind, separating memory into two distinct types: singular (knowledge of a particular incident or fact) and generic (recognition of broader patterns). As the brain ages, the ability to use singular memory declines, but generic memory is unaffected—and its importance grows. As an individual accumulates generic memory, the brain can increasingly rely upon these stored patterns to solve problems effortlessly and instantaneously. Goldberg investigates the neurobiology of wisdom, and draws on historical examples of artists and leaders whose greatest achievements were realized late in life.

Executive Functions in Health and Disease provides a comprehensive review of both healthy and disordered executive function. It discusses what executive functions are, what parts of the brain are involved, what happens when they go awry in cases of dementia, ADHD, psychiatric disorders, traumatic injury, developmental disorders, cutting edge methods for studying executive functions and therapies for treating executive function disorders. It will appeal to

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neuropsychologists, clinical psychologists, neuroscientists and researchers in cognitive psychology. Encompasses healthy executive functioning as well as dysfunction Identifies prefrontal cortex and other brain areas associated with executive functions Reviews methods and tools used in executive function research Explores executive dysfunction in dementia, ADHD, PTSD, TBI, developmental and psychiatric disorders Discusses executive function research expansion in social and affective neuroscience, neuroeconomics, aging and criminology Includes color neuroimages showing executive function brain activity This volume presents recent empirical advances using neuroscience techniques to investigate how culture influences neural processes underlying a wide range of human abilities, from perception and scene processing to memory and social cognition. It also highlights the theoretical and methodological issues with conducting cultural neuroscience research. Section I provides diverse theoretical perspectives on how culture and biology interact are represented. Sections II –VI is to demonstrate how cultural values, beliefs, practices and experience affect neural systems underlying a wide range of human behavior from perception and cognition to emotion, social cognition and decision-making. The final section presents arguments for integrating the study of culture and the human brain by providing an explicit articulation of how the study of culture can inform the study of the brain and vice versa.

A compendium of exercises, strategies, tips, and techniques to sharpen memory skills, "Max Your Memory" is the first visually led, memory-improving program to be fully illustrated with infographics. Each exercise chapter includes engaging puzzles, games, and exercises that will help sharpen one's memory.

When Doris Kartinyeri was a month old her mother died. Her family gathered to mourn their

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loss, and welcome the new baby home. But Doris never returned to her family -- she was stolen from the hospital and placed in the Colebrook Home, where she stayed for the next fourteen years. This powerful memoir describes her life, and the pain of her family as they sought to have her returned to them.

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