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October

General Interest Science
$35.00
8 x 10, 224 pages, index
Cloth with jacket
Color photographs and illustrations
A Joseph Henry Press book
Rights: World

MARKETING
• Concurrent publicity with airing of PBS series in early 2002
• Full-color blads
• National review attention
• National print advertising campaign
• National media attention: radio and television
• Co-op available
Ten years ago a presidential proclamation ushered in the “Decade of the Brain.” We have since realized enormous benefits from this decade of discovery. Scientists now have a better understanding and appreciation of the complexity of this rather unassuming three-pound mass of interwoven cells. We have even seen evidence of how a healthy brain contributes to our overall sense of wellness. And, perhaps most important of all, we now—more than ever—recognize the awesome power and potential of the human brain.

Each of the brain’s developmental stages provides its own opportunities and perils. Each is part of a marvelous narrative—opening at the very moment of conception, building to peak adult neurological performance when the brain contains its full repertoire of cells, and slowly edging toward the denouement of old age. *The Secret Life of the Brain* tells this fascinating story by tracing the patterns that only careful study has revealed to us.

Equal parts fragile and tenacious, development continues unabated across the entire life span through five specific stages: gestation, childhood, adolescence, adulthood, and old age. In each of these phases, the opportunities are abundant, while the dangers remain equally apparent. Deprive a baby’s brain of light and sound and human contact, and you stunt normal development. Should a teenager take drugs, the brain becomes contaminated by the unnatural chemicals that are introduced into the body. Like a muscle in our arms or legs, if we ignore the brain, leave it untended, it becomes flaccid and slow, especially as we move into old age, when the brain is more vulnerable to afflictions.

*The Secret Life of the Brain* explores each of these five stages in detail. Like the PBS series of the same name, the complex subject of leading-edge brain science is presented in terms accessible to all and brought to life through anecdotes and real-life stories. Told by best-selling author Dr. Richard Restak, the majesty and the mystery of human intelligence are unveiled.

Co-published with the Dana Press.
Since the dawn of time, eclipses have been perceived as peculiarly portentous events. In his intriguing new book, *Eclipse*, Duncan Steel explains everything you will ever need to know about eclipses.

Whether interpreted as an auspicious omen or a sentinel of doom, eclipses have had a profound effect upon our cultural development. Throughout recorded history, they have evoked consternation, fear, and dread—as well as awe and wonderment.

Ancient peoples were clearly disconcerted by them. The Romans marked pivotal battles with the Greeks by references to an eclipse. The date of the crucifixion of Jesus Christ has been derived by using biblical mentions of an eclipse. Perhaps most famously, Christopher Columbus extorted much-needed foodstuffs from some increasingly unfriendly native hosts by purporting to demonstrate the wrath of his most powerful God when he accurately predicted a lunar eclipse.

The pattern that eclipses follow—a cycle, called the saros—was actually calculated thousands of years ago. However, it is only with the help of modern computers that we have been able to analyze and appreciate the data. Eclipses provide unique opportunities for today's scientists to study such contrasting phenomena as the upper layers of the sun, the slowdown of our planet's spin rate, and the effects of celestial events on human psychology.

In *Eclipse*, Duncan Steel expertly captures our continuing fascination with all manner of eclipses—including the familiar solar and lunar varieties and other kinds involving stars, planets, asteroids, and comets as well as distant galaxies and quasars. Steel helps us see that, in astronomical terms, eclipses are really rather straightforward affairs. Moving beyond the mysticism and the magic, the science of eclipses is revealed.
IN SEARCH OF THE LOST CORD
Solving the Mystery of Spinal Regeneration

LUBA VIKHANJSKI

MARKETING
• National review attention
• Advance readers copies
• American Bookseller Association’s Advance Access Program
• National Radio Campaign
• Co-op available

October
General Interest
Science / Biology
ISBN 0-309-07437-1
$27.95
6 x 9, 275 pages, index
Cloth with jacket
A Joseph Henry Press book
Rights: World
A quiet revolution is taking place in laboratories and research centers around the world. What was once thought to be impossible, seems tantalizingly close to reality today. Indeed, it may not be too long before victims of severe spinal cord injuries take their first few tentative steps.

In Search of the Lost Cord is a scientific detective story, the stuff of science fiction en route to science fact. People trapped by the limitation of paralyzed limbs, rendered useless by devastating, catastrophic injuries to their spinal cords, may one day walk again. If the research is successful … if the scientists hit on the right strategy for approaching the problem, we may yet see miracles happen.

In her new book, science journalist Luba Vikhanski profiles the rapidly developing field of spinal cord injury research. She explains the field's greatest scientific challenges and introduces us to the pioneers who are working toward what would be a startling breakthrough. Perhaps the most riveting aspect of this international effort is the fact that each of these scientists is approaching the problem in very different ways. In the worldwide race to claim the prize of a cure, we witness a drama in the making.

Who will cross the finish line first? Will it be the Swiss scientist Martin Schwab, who has actually managed to heal spinal cords in rats and has restored their ability to walk? Will it be Wise Young, a Rutgers scientist who is pinning his research hopes on drug therapies? Or could Lars Olson of the Swedish Karolinska Institute hold the key to success in his efforts to construct a bridge of slender nerve filaments to connect a once-severed spinal cord? His rats are already flexing their legs.

These scientists, and others with unique and creative approaches of their own, have dared to tackle this seemingly unsolvable problem of spinal cord regeneration. Like all major medical and scientific breakthroughs, the "Eureka" moment often seems obvious in hindsight. Perhaps we'll have the same perspective when the puzzle of spinal cord regeneration is solved and the nerves are indeed healed. Until that time, there's a race to the finish line, and suspense is building. In Search of the Lost Cord is a trackside seat.

Co-published with the Dana Press.

Luba Vikhanski is a science journalist specializing in medical and biomedical research. She is the author of An Informed Patient's Guide to Breast Surgery, which received the 1993 Rose Kushner Award from the American Medical Association. A graduate of New York University in 1989, she was employed as a medical reporter for several years while living in Manhattan. Now living in Israel, she is head of the foreign press section in the public affairs department of the Weizmann Institute of Science. During her six years at the Institute, she has accumulated vast inside knowledge of the neuroscience community and has successfully established personal ties with a number of scientists engaged in the effort to repair the severed spinal cord.
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• American Bookseller Association's Advance Access Program
• National Radio Campaign
• Co-op available
• Author appearances to coincide with the openings of the traveling museum exhibition GENOME

Rob DeSalle and Michael Yudell, Editors
THE GENOMIC REVOLUTION
Unveiling the Unity of Life

Rob DeSalle and Michael Yudell, Editors

As the American Museum of Natural History opens the doors to GENOME, a major exhibition that examines the burgeoning field of genomics, curator Rob DeSalle leads us on an exploration of what promises to be a brand new world.

From the discoveries of Watson and Crick to the appearance of Dolly the Sheep, the last fifty years have ushered in a revolution of knowledge in how organisms develop, function, and replicate. Scientists are now engaged in an epic task that will catapult the revolution to new heights: the sequencing of the human genome.

Consider the scope of such a discovery. How different are we from one another? Does race have a scientific meaning? Is there such a thing as a disease gene? What are the potential risks of genetically modified food? Does a clone have a soul? The Human Genome Project will inevitably lead to landmark changes in medicine, agriculture, and the study of evolution—and will ultimately define the course of human history.

*The Genomic Revolution: Unveiling the Unity of Life* takes readers on a fascinating journey through genomics—from the basic presentation of ideas about heredity through the essential principles of molecular biology, including an exploration of the ethical implications of the genome project for individuals and society.

Some of the world’s leading experts in genomics—Harold Varmus, Leroy Hood, Mary-Claire King, Daniel Kevles, and Craig Venter, to name just a few—contribute their assessments of the state of current scientific research. Written for anyone wondering why we are the way we are, *The Genomic Revolution* is a timely and important collection that spans the science, the promise, and the potential pitfalls of a field moving so quickly that its achievements may alternately delight and trouble us, but almost always surprise us.
HOW STUDENTS LEARN
History, Math, and Science in the Classroom
National Research Council

A practical companion for teachers based on the methods in the bestselling How People Learn.

How do you get a fourth-grader excited about history? How do you even begin to persuade high school students that mathematical functions are relevant to their everyday lives? These are practical questions that confront every classroom teacher. They are addressed here using the latest exciting research on cognition, teaching, and learning.

How Students Learn: History, Math, and Science in the Classroom builds on the discoveries detailed in the best-selling How People Learn series. These findings are now presented in a way that teachers can use immediately, allowing them to revitalize their work in the classroom for greater effectiveness.

Organized in a way that makes it especially easy to use, the book explores how the principles of learning can be applied in teaching history, science, and math topics at three levels: elementary, middle, and high school. Leading educators explain in detail how they developed successful curricula and teaching approaches, presenting strategies that serve as models for curriculum development and classroom instruction. Their recounting of personal teaching experiences lends both strength and warmth to this volume.

The book goes on to explore the importance of balancing students’ knowledge of historical fact against their understanding of concepts, such as change and cause, and their skills in assessing historical accounts. It discusses how to build straightforward science experiments into true understanding of scientific principles. And it shows how to overcome the difficulties in teaching math to generate real insight and reasoning in math students. It also features illustrated suggestions for classroom activities.

How Students Learn offers a highly useful blend of principle and practice. It will be important not only to teachers, administrators, curriculum designers, and teacher educators, but also to parents and the larger community concerned about children’s education.

Find the companion, How People Learn, on page 32.
A Case of Chronic Neglect
Education and Training of Health Professionals on Family Violence

Felicia Cohn, Marla Salmon, and John Stobo, Editors
Institute of Medicine and the National Research Council

Health care professionals can play a particularly important role in the screening, diagnosis, treatment, referral—and even prevention—of abuse and neglect.

As many as 20 to 25 percent of American adults—or one in every four people—have been victimized by, witnesses of, or perpetrators of family violence in their lifetimes. Family violence affects more people than cancer, yet it’s an issue that receives far less attention. Surprisingly, many assume that health professionals are deliberately turning a blind eye to this traumatic social problem.

The fact is, very little is being done to educate health professionals about family violence. Health professionals are often the first to encounter victims of abuse and neglect, and therefore play a critical role in ensuring that victims—as well as perpetrators—get the help they need. Yet, despite their critical role, studies continue to describe a lack of education for health professionals about how to identify and treat family violence. And those that have been trained often say that they feel ill-equipped or lack support from their employers to deal with a family violence victim, sometimes resulting in a failure to screen for abuse during a clinical encounter.

Equally problematic, the few curricula that do exist often lack systematic and rigorous evaluation. This makes it difficult to say whether they are truly effective.

A Case of Chronic Neglect offers recommendations, such as creating education and research centers, that would help raise awareness of the problem on all levels. In addition, it recommends ways to involve health care professionals in taking some responsibility for responding to this difficult and devastating issue.

Perhaps most importantly, A Case of Chronic Neglect encourages society as a whole to share responsibility. Health professionals alone cannot solve this complex problem. Responding to victims of family violence and ultimately preventing its occurrence is a societal responsibility.
Previously Announced Books

New and Recently Published Books
Previously Announced Books

ADDING IT UP
How Children Learn Mathematics

Jeremy Kilpatrick, Jane Swafford, and Bradford Findell, Editors
National Research Council

All children must learn to think mathematically, and they must think mathematically to learn.

A child born today enters a world in which mathematical ideas are threaded throughout daily life. Mathematics is the language that makes observations comparable, data intelligible, and generalizations precise. It is so much a part of how we live and think that anyone who wishes to be a fully participating member of society must know the basics.

Mathematics also has a more specialized, esoteric, and esthetic side. It epitomizes the beauty and power of deductive reasoning and embodies the efforts made by civilizations to comprehend nature and bring order to human affairs. The mastery of mathematics as a form of reasoning has long been held a hallmark of an educated person.

From these dual perspectives, Adding It Up explores how students in pre-K through grade 8 learn mathematics and recommends how teaching, curricula, and teacher education should change to improve mathematics learning during these critical years.

Adding it Up identifies five interdependent components of mathematics proficiency in the domain of numbers and describes how students develop these proficiencies. With examples and illustrations, the book presents a portrait of mathematics learning:

• Research findings on what children know about numbers by the time they arrive in pre-K and the implications for mathematics instruction
• Details on the processes by which students acquire mathematical proficiency with whole numbers, rational numbers, and integers, as well as beginning algebra

Should children learn computation methods before they understand the concepts? What is the role of concrete manipulatives? What difference do teacher and student expectations make? Addressing these questions and more, Adding It Up will be important to anyone who cares about a mathematically literate society.
EDUCATING CHILDREN WITH AUTISM

Catherine Lord and James P. McGee, Editors
National Research Council

Autism is a word most of us are familiar with, but do we really know what it means?

Children with autism are challenged by the most essential human behaviors. They have difficulty interacting with other people—often failing to see people as people rather than simply as objects in their environment. They cannot easily communicate ideas and feelings, have great trouble imagining what others think or feel, and in some cases spend their lives speechless. They frequently find it hard to make friends or even bond with family members. Their behavior can seem bizarre.

Education is the primary form of treatment for this mysterious condition. With the passage of the Individuals with Disabilities Education Act of 1975, we accepted responsibility for educating children who face special challenges such as autism. Although we have since amassed a substantial body of research, researchers have not adequately communicated with one another, and their findings have not been integrated into a proven curriculum.

Educating Children with Autism outlines an interdisciplinary approach to education of children with autism. The committee explores what makes education effective for the child with autism and identifies specific characteristics of programs that work. Recommendations are offered for choosing educational content and strategies, introducing interaction with other children, and other key areas.

This book examines some fundamental issues, including:

- How children’s specific diagnoses should affect educational assessment and planning
- How we can support the families of children with autism
- Features of effective instructional and comprehensive programs and strategies
- How we can better prepare teachers, school staffs, professionals, and parents to educate children with autism
- What policies at the federal, state, and local levels will best ensure appropriate education, examining strategies, and resources needed to address the rights of children with autism

Through a comprehensive examination of the scientific knowledge underlying educational practices, programs, and strategies, Educating Children with Autism presents valuable information for parents, administrators, advocates, researchers, and policy makers.
Knowing What Students Know
The Science and Design of Educational Assessment

James Pellegrino, Robert Glaser, and Naomi Chudowsky, Editors
National Research Council

How students perform on educational assessments affects not only their academic futures, but also the standing of their teachers, schools, and school districts.

Education is a hot topic. From the stage of presidential debates to tonight’s dinner table, it is an issue that most Americans are deeply concerned about. Although there are many strategies for improving the educational process, we need a way to find out what works and what doesn’t work. Educational assessment seeks to determine just how well students are learning and is an integral part of our quest for improved education.

The nation is pinning greater expectations on educational assessment than ever before. We look to these assessment tools when documenting whether students and institutions are truly meeting education goals, but we must stop and ask a crucial question: What kind of assessment is most effective?

At a time when traditional testing is subject to increasing criticism, research suggests that new, exciting approaches to assessment may be on the horizon. Advances in the sciences of how people learn and how to measure such learning offer the hope of developing new kinds of assessments—assessments that help students succeed in school by making as clear as possible the nature of their accomplishments and the progress of their learning.

Knowing What Students Know essentially explains how expanding knowledge in the scientific fields of human learning and educational measurement can form the foundations of an improved approach to assessment. These advances suggest ways that the targets of assessment—what students know and how well they know it—as well as the methods used to make inferences about student learning can be made more valid and instructionally useful. Principles for designing and using these new kinds of assessments are presented, and examples are used to illustrate the principles. Implications for policy, practice, and research are also explored.

With the promise of a productive research-based approach to assessment of student learning, Knowing What Students Know will be important to education administrators, assessment designers, teachers and teacher educators, and education advocates.
SPEAKING OF HEALTH
Assessing Health Communication Strategies for Diverse Populations

Institute of Medicine

How do we communicate the language of good health so that it’s uniformly received—and accepted—by people from different cultures and backgrounds?

We are what we eat. That old expression seems particularly poignant every time we have our blood drawn for a routine physical to check our cholesterol levels. And it’s not just what we eat that affects our health. Whole ranges of behaviors ultimately make a difference in how we feel and how we maintain our health. Lifestyle choices have enormous impact on our health and well-being. But in our increasingly global culture, healthcare professionals are challenged to find the most effective ways to discuss health issues with patients from diverse backgrounds.

Take, for example, the case of a 66-year-old Latina. She has been told by her doctor that she should have a mammogram, but her sense of fatalism tells her that it is better not to know if anything is wrong. To know that something is wrong will cause her distress, and this may well lead to even more health problems. Before she leaves her doctor’s office, she has decided not to have a mammogram—that is, until her doctor points out that having one is a way to take care of herself so that she can continue to take care of her family. In this way the decision to have a mammogram feels like a positive step.

Public health communicators and health professionals face dilemmas like this every day. Speaking of Health looks at the challenges of delivering important messages to different audiences. Using case studies in the areas of diabetes, mammography, and mass communication campaigns, it examines the ways in which messages must be adapted to the unique informational needs of their audiences if they are to have any real impact.

Speaking of Health looks at basic theories of communication and behavioral change and focuses on where they apply and where they do not. By suggesting creative strategies and guidelines for speaking to diverse audiences now and in the future, the Institute of Medicine seeks to take health communication into the 21st century. In an age in which we are inundated by multiple messages every day, this book will be a critical tool for all who are interested in communicating with diverse communities about health issues.
BUZZWORDS
A Scientist Muses on Sex, Bugs, and Rock ‘n’ Roll

May Berenbaum

“If there is a funnier book written by an entomologist, then I, personally, am not aware of it!” — Dave Barry

What sort of person devotes her life to the study of bugs? How do you picture your average everyday entomologist? In Buzzwords, May Berenbaum blows away any stereotypes you might have with wild and witty short takes on all things entomological.

One of the nation’s leading entomologists, Berenbaum is not only fascinated by insects but also shares her long-standing enthusiasm with a brand of humor rarely encountered in a serious scientist. She’ll have you laughing out loud—and nervously checking for bugs crawling up your sleeve.

Whether discussing the longevity of ants (the record holder is 15 years old), the sexual habits of dragonflies (the whole thing is often so brutal that it leaves the female disfigured and the male clinging to life), termite flatulence (cows can’t—and shouldn’t—hold a candle to these insects when it comes to methane production), or how best to remove a cockroach from the ear canal (freeze ‘em versus flood ‘em), Berenbaum’s delightful new book is equal parts humor and science.

Berenbaum, a noted scientist in a field that doesn’t always get the respect it deserves, shows us that there’s a fun and even freaky side of life with insects. From the role that insects play in popular culture to the creepier crawler bits of insect lore, you’ll chuckle all the way to the last page. But Berenbaum has the last laugh, giving powerful lessons in the spectacular diversity of the insect world and the nature of scientific discovery.

May Berenbaum received a Ph.D. in ecology and evolutionary biology in 1980. Since then she has been on the faculty of the Department of Entomology at the University of Illinois at Urbana-Champaign; she has served as the head of the department since 1992. Berenbaum is a member of the National Academy of Sciences, a fellow of the American Association for the Advancement of Science, and a fellow of the American Academy of Arts and Sciences. She is the author of three previous books and lives in Illinois.
THE DOOR IN THE DREAM
Conversations with Eminent Women in Science

Elga Wasserman

Meet a select group of women who have achieved the honor of election to the prestigious National Academy of Sciences. Their personal treks reveal the rewards of remaining undeterred in the face of adversity—and always being true to themselves.

Although much has been written about barriers to women in science, very little work celebrates the wisdom and insights of those women who have risen to the top of their chosen scientific profession. Including several Nobel laureates, the group is elite—yet their career profiles and personal interviews have much to say to everyone struggling to overcome obstacles. From their passionate love of research to their struggle to balance the demands of home and career, these women share a great deal. At the same time, these intimate portraits offer widely different insights about how being female has affected their careers.

We discover the importance of such factors as persistence, good mentoring, talent, and just plain luck. Often, there is a critical moment at which, but for a serendipitous event, even these dedicated women could easily have been diverted from their career paths. The Door in the Dream offers a revealing glimpse into the lives of these inspiring women, providing readers the opportunity to benefit from their personal insights and anecdotes.

Through interviews conducted over many years, personal portraits emerge that are both inspiring and absorbing. Meet Janet Rowley, who initially completed only the minimal requirements to earn her M.D. but ultimately made discoveries that have significantly advanced the treatment of leukemia. Or Gertrude Elion, who overcame numerous impediments to eventually win a Nobel Prize. Then there’s Maria Koshland, who raised five children—including a set of twins—while also nurturing a successful career in scientific research.

In an informal and engaging manner, Wasserman provides a fascinating commentary on the changing status and representation of women in science in the 20th century. Rather than concentrating on the barriers they faced, this remarkable book celebrates the wisdom, perseverance, and dedication it took to rise to the top of their chosen professions. Including several Nobel laureates, the group unquestionably defines what it means to be different—but their stories have much to say to everyone.
EAGER TO LEARN
Educating Our Preschoolers

National Research Council

Well before formal schooling begins, children’s early experiences lay the foundations for their later social behavior, emotional regulation, and literacy.

Clearly, babies come into the world remarkably receptive to its wonders. Their alertness to sights, sounds, and even abstract concepts makes them inquisitive explorers—and learners—every waking minute. Yet, for a variety of reasons, far too little attention is given to the quality of these crucial years. Outmoded theories, outdated facts, and undersized budgets all play a part in the uneven quality of early childhood programs throughout our country.

What will it take to provide better early education and care for our children between the ages of two and five? Eager to Learn explores this crucial question, synthesizing the newest research findings on how young children learn and the impact of early learning. Key discoveries in how young children learn are reviewed in language accessible to parents as well as educators: findings about the interplay of biology and environment; variations in learning among individuals and children from different social and economic groups; and the importance of health, safety, nutrition, and interpersonal warmth to early learning. Perhaps most significant, the book documents how very early in life learning really begins. Valuable conclusions and recommendations are presented in the areas of the teacher–child relationship, the organization and content of curriculum, meeting the needs of those children most at risk of school failure, teacher preparation, assessment of teaching and learning, and more. The book discusses:

• Evidence for competing theories, models, and approaches in the field and a hard look at some day-to-day practices and activities generally used in preschool
• The role of the teacher, the importance of peer interactions, and other relationships in the child’s life
• Learning needs of minority children, children with disabilities, and other special groups
• Approaches to assessing young children’s learning for the purposes of policy decisions, diagnosis of educational difficulties, and instructional planning
• Preparation and continuing development of teachers

Eager to Learn presents a comprehensive, coherent picture of early childhood learning, along with a clear path toward improving this important stage of life for all children.
EINSTEIN’S UNFINISHED SYMPHONY
Listening to the Sounds of Space-Time

Marcia Bartusiak

“A gripping story about real people and real events that makes science come alive. Einstein’s Unfinished Symphony gives you a ringside seat at what is likely to be the next great revolution in astronomy.”
—The Washington Post Book World

A new generation of observatories now being completed worldwide will give astronomers not just a new window on the cosmos, but a whole new sense to explore and experience the heavens with. Instead of collecting light waves or radio waves, these instruments will allow astronomers to feel the very rhythms of the universe. These vibrations in space-time—or gravity waves—are the only prediction of Einstein’s general theory of relativity that has yet to be observed directly. They are his unfinished symphony, waiting nearly a century to be heard.

When these waves reveal themselves, we’ll be able to hear the cymbal crashes from exploding stars, tune in to the periodic drumbeats from rotating pulsars, listen to the extended chirps from the merger of two black holes, and eavesdrop on the remnant echoes from the Big Bang itself.

In Einstein’s Unfinished Symphony, Bartusiak captures the excitement as two gravity-wave observatories in the U.S.—known as LIGO—approach operation along with others around the world, and physicists gear up to register the long-predicted quakes in space-time. With a lively writing style that translates intricate physical concepts into lyrical language, Bartusiak describes how a gravity wave surges through the cosmos at the speed of light. We come to know many of the people involved in today’s experiments, as Bartusiak weaves their personal histories in with their aspirations for the venture.

With a background in both journalism and physics, Marcia Bartusiak has been covering the fields of physics and astronomy for more than two decades. She was the first woman to receive the prestigious Science Writing Award from the American Institute of Physics. For many years a contributing editor to Discover magazine, Bartusiak is now on the editorial advisory board of Astronomy magazine. She lives in Sudbury, Massachusetts.
The early stages of life have the potential for being a rich and rewarding foundation that will support a child all the way into adulthood.

How we raise young children is one of today’s most highly personalized and sharply politicized issues, in part because each of us can claim some level of “expertise.” The debate has intensified as discoveries about child development in the first months and years of life have reached the popular media.

How can we use our burgeoning knowledge to ensure the well-being of all young children for their own sake as well as for the sake of our nation? Drawing from new findings, this book presents important conclusions about the whole notion of nature-versus-nurture, the importance of early relationships, social and economic trends affecting young children, the impacts of early interventions, as well as other key issues.

The committee—drawing on leading experts in the field—issues a series of recommendation to decision makers regarding the mental health of young children, the quality of child care, children’s economic well-being, the balancing act between paid work and meeting children’s needs, issues of racial and ethnic diversity, and more.

Authoritative yet accessible, From Neurons to Neighborhoods presents the newest evidence about early brain development and how children learn to speak, think, get along with others, and regulate their behavior. It examines the effect of the surrounding context—family, child care, community—within which the child grows.

Are the early years a time of vulnerability or resilience? To what extent are our future prospects constrained by how well we navigate them? How can we get all children off to a good start in life? When should we worry? This book provides a framework for approaching such vital questions and explores how scientists know what they know about childhood development.

This book is important to all who care about children and their families: policy makers, educators, researchers, program administrators, advocates, journalists, caregivers, and parents.
The Internet is everywhere. It’s part of our lives and appears to be here to stay. But what is the Internet? Most of us simply perceive it to be a big, single, seamless structure—when, in fact, it is actually a set of largely autonomous, loosely coordinated communications networks. The basic technology of the Internet—the protocols used to communicate across it—hides these realities and the true nature of the Internet. However, as its influence continues to grow, understanding the reality of the Internet’s infrastructure is imperative to acting on a wide range of policy issues.

This timely new book explains basic design choices that underlie the Internet’s success; identifies key trends in the evolution of the Internet; evaluates current and prospective technical, operational, and management challenges; and explores the resulting implications for decision makers. The committee—composed of distinguished leaders from both the corporate and the academic communities—makes recommendations aimed at policy makers, industry, and researchers.

It covers a variety of important and thought-provoking issues, among them:

- How the Internet’s constituent parts are truly interlinked
- The economic and technical complications involved in maintaining the Internet’s seamless appearance
- Tensions inherent between open innovation on the Internet and the ability of innovators to capture the commercial value of their breakthroughs
- The scaling challenges that face the Internet as it grows to meet the demands of users in the future
- Regulatory issues posed by the Internet’s entry into other sectors, such as telephony

This book will be helpful to anyone seeking to understand what lies at the heart of the Internet’s success and looking for direction as the Internet continues to take shape.
Even though youth crime rates have fallen since the mid-1990s, public fear and political rhetoric over the issue have heightened. The public has never been more aware—or concerned—about juvenile crime issues since the Columbine High School shootings and other sensational incidents. But do we really understand why juveniles resort to criminal behavior? Often overlooked are the underlying problems of child poverty, social disadvantage, and the pitfalls inherent in adolescent decision making that contribute to youth crime. From a policy standpoint, adolescent offenders are caught in the crossfire between the nurturance of youth and the punishment of criminals. *Juvenile Crime, Juvenile Justice* presents recommendations for addressing the many aspects of the youth crime problem.

This timely release discusses patterns and trends in crimes by children and adolescents—trends revealed by arrest data, victim reports, and other sources; youth crime within general crime; and race and gender disparities. The book explores desistance—the probability that delinquency or criminal activities decrease with age—and evaluates different approaches to predicting future crime rates.

Why do young people turn to delinquency? *Juvenile Crime, Juvenile Justice* presents what we know and what we urgently need to find out about contributing factors, ranging from prenatal care, differences in temperament, and family influences to the role of peer relationships, impacts of school policy on delinquency, and the broader influences of the neighborhood and community. Equally important, this book examines a range of solutions:

- Prevention and intervention efforts directed to individuals, peer groups, and families as well as day-care-, school-, and community-based initiatives
- Intervention within the juvenile justice system
- Role of the police
- Processing and detention of youth offenders
- Transferring youths to the adult judicial system
- Residential placement of juveniles

The book includes background on the American juvenile court system, useful comparisons with the juvenile justice systems of other nations, and other important information for assessing this problem.
MOUNTAINS OF MADNESS
A Scientist’s Odyssey in Antarctica

John Long

— Publishers Weekly

In 1988 and again in 1992, paleontologist John Long went fossil hunting in the coldest place on Earth—the Transantarctic Mountains of Antarctica. As a scientist, he went seeking specimens of fossilized fish, but as a human being, Long went seeking adventure—and the experience ended up changing his life forever. Through many dangerous, occasionally comical, but always genuinely moving experiences, his life was fundamentally altered.

As the story unfolds, we learn of both the highs of scientific discovery and the grueling—yet essential—routines that must be practiced every day just to stay alive in one of the harshest environments on our planet. Long’s wonder at the intense beauty of his surroundings alternates with episodes of boredom and immense frustration from being completely at the mercy of the elements. Throughout the expedition, danger is never far off, from the crash of an avalanche to a hair-raising escape from a deep crevasse.

Peppered with insights into how a person stays sane in such an insane place, this is both a fascinating account of the scientific and ecological importance of the Antarctic and a testament to the courageous people who make such exploration possible. In addition to a wealth of scientific information about this icy continent, we come to see the human side of Antarctic science and learn of the lingering effects that Antarctic expeditions can have on a person’s day-to-day outlook.

Mountains of Madness is a moving saga of science, exploration, and human endurance. It is a story of how real science is practiced in a unique and demanding setting—where scientists come close to sacrificing their lives in the pure and simple quest for knowledge.

John Long received his Ph.D. in paleontology from Monash University in Australia. Long is the recipient of the 2001 Eureka Prize for the Promotion of Science. He has published over 100 scientific papers, more than 60 popular science articles, and a number of scholarly books on the Antarctic and fish fossils. He is curator of vertebrate paleontology at the Western Australian Museum in Perth, Australia.
NOBEL PRIZE WOMEN IN SCIENCE
Their Lives, Struggles, and Momentous Discoveries

Second Edition

Sharon Bertsch McGrayne

Since 1901 there have been over 300 recipients of the Nobel Prize in the sciences. Only 10 of them—about 3 percent—have been women. Why?

In this updated version of Nobel Prize Women in Science, Sharon Bertsch McGrayne explores the reasons for the astonishing disparity in the number of Nobel Prizes awarded to women. She examines the lives and achievements of 15 women scientists who either won a Nobel Prize or played a crucial role in a Nobel Prize-winning project. The book reveals the relentless discrimination these women faced both as students and researchers and their passionate love of science that ultimately allowed them to prevail.

The book begins with Marie Curie, the first woman to win the Nobel Prize in physics. Readers are then introduced to other less well known women who have excelled in their fields. We meet Christiane Nusslein-Volhard, Emmy Noether, Lise Meitner, Barbara McClintock, Chien-Shiung Wu, and Rosalind Franklin. These and other remarkable women portrayed here struggled against gender discrimination to raise families, became political and religious leaders, and broke through social and professional barriers to achieve their goals. They were mountain climbers, musicians, seamstresses, and gourmet cooks. Above all, they were strong, joyful women in love with discovery.

Nobel Prize Women in Science is a revealing look into the history of science and the critical and inspiring role that women have played in the drama of scientific progress.

Sharon Bertsch McGrayne is a former newspaper reporter and writer-editor on physics for Encyclopaedia Britannica. The author interviewed every living woman scientist who is a subject in this book, including Nusslein-Volhard, the most recent female Nobel laureate, and 250 of their colleagues, associates, and family members. She has lectured about women in science at many scientific institutions here and abroad. She lives in Seattle, Washington.
ONE UNIVERSE
At Home in the Cosmos

Neil de Grasse Tyson, Charles Liu, and Robert Irion

“What’s most refreshing about this road trip through the heavens is the humility of its authors in the face of so much that is unknowable or dimly understood, even as they patiently but eloquently provide one-stop shopping for students of the cosmos.”
— The New York Times Book Review

A new window opens onto the cosmos . . .

Almost every day we are challenged by new information from the outermost reaches of space. Using straightforward language, One Universe explores the physical principles that govern the workings of our own world so that we can appreciate how they operate in the cosmos around us.

Although the celestial bodies that move about the universe seem physically and intellectually unreachable to us from our Earth-bound vantage, we can understand the vast cosmos in which we live by exploring three basic concepts: motion, matter, and energy. With these as a starting point, One Universe shows how the physical principles that operate in our kitchens and backyards are actually down-to-Earth versions of cosmic processes.

Glorious photographs and original illustrations expand and enrich our understanding. Evocative and clearly written, One Universe explains complex ideas in ways that every reader can grasp and enjoy. This book captures the grandeur of the heavens while making us feel at home in the cosmos.

Author Neil de Grasse Tyson, Director of the Hayden Planetarium at the American Museum of Natural History, has recently appeared on the Today Show, Good Morning America, The Early Show, Charlie Rose, NBC Nightly News, and ABC 2000 Celebration. He and his coauthors, Charles Liu and Robert Irion, have toured to promote the book in New York, Washington, D.C., and Los Angeles.

Main Selection of the Astronomy Book Club
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QUANTUM LEAPS IN THE WRONG DIRECTION
Where Real Science Ends . . . and Pseudoscience Begins

Charles M. Wynn and Arthur W. Wiggins
With Cartoons by Sidney Harris

An informative and enlightening look at the world of pseudoscience.

Astrology, aliens, and psychics, oh my! This is the stuff of tabloid headlines. Most people find them laughable, but a lot of people read these stories—and believe them. After all, it’s science, right? Actually, no—it’s pseudoscience.

How do you determine the difference? It’s not as easy as you think when you see how many intelligent and rational people advocate creationism and UFOs. And sometimes, misguided beliefs can get you into real trouble.

Consider Marshall Applewhite’s declaration: “Planet Earth about to be recycled. Your chance to survive—leave with us.” In 1997, 39 people in a communal California home believed his claim and committed suicide. They hoped to shed their earthly “containers” and be whisked away by extraterrestrials to a higher level of existence. Unfortunately, their belief in pseudoscientific claims cost them their lives and became a tragic reality check for the rest of us.

Quantum Leaps in the Wrong Direction takes us on a tour of the most notorious instances of pseudoscience and sets the record straight on the five most widely believed topics: ESP, astrology, out-of-body experiences, creationism, and the ubiquitous UFO. Each idea is reviewed in detail to see how well it stands up to scientific scrutiny. The book examines what’s right about real science, and compares the pseudoscientific approach with the true scientific approach. It explains the core value of science—that ideas are tested by controlled experiments and challenged by critical, rational thought. Quantum Leaps in the Wrong Direction draws the line between ill-conceived notions and solid scientific methods.

Clear, concise (and often very amusing) explanations of what science is and isn’t, along with cartoons by the legendary Sidney Harris make this book wicked fun—and wicked smart.

Charles M. Wynn, Sr. is Professor of Chemistry and General Chemistry Coordinator at Eastern Connecticut State University. Arthur W. Wiggins is Professor of Physics and Physical Sciences Department Head at Oakland Community College in Michigan. They are the co-authors of The Five Biggest Ideas in Science (1996). Sidney Harris has published cartoons in numerous magazines, including The New Yorker and American Scientist.
**REEFSCAPE**

Reflections on the Great Barrier Reef

**Rosaleen Love**

Immersed in the fantastic web of life that inhabits Australia's Great Barrier Reef, Rosaleen Love tells a complex tale of science, history, and enduring ecological beauty.

Located off Australia's eastern coast, the Great Barrier Reef is one of the wonders of the natural world. The diversity of life is simply incredible. It is the ideal environment for coral, making it a diver's paradise. Indeed, some 200 million tourists visit the reef each year.

Part travelogue, part eco-history, *Reefscape* represents multiple views of the reef—through the eyes of mariners, pearl divers, naturalists, filmmakers, pirates, industrialists, and tourists alike—painting a fascinating portrait of a unique locale.

Told in a reflectively poetic voice, Love writes evocatively of the ecological, biological, and geological significance of the reef. Woven throughout is the intriguing history of the area. This twofold approach provides a rich perspective on the reef as an ecosystem as well as a natural resource for its inhabitants. By recounting both tales, *Reefscape* provides a window on the past and foreshadows the future of this extraordinary environment.

Rosaleen Love earned her Ph.D. in history and philosophy of science at the University of Melbourne. Her books include an anthology of Australian science writing, *If Atoms Could Talk*, and two collections of short fiction. Her short stories and essays have appeared in anthologies in Australia, Great Britain, and the United States.
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