Vera Rubin A Life

Hasidic PeopleThe Transformation of Palestinian PoliticsRevolution Until Victory?A Fresh Map of LifeFamily KaleidoscopeRemembering the FutureWhat Stars Are Made OfThird ThoughtsThe Flow of LifeLife in a ShellFrom Here to ThereWoman and the DemonExoplanetsAmerican Farm LifeZwickyChina's IntellectualsThe Rise of the Arabic BookVera RubinCosmic EvolutionCosmic HorizonsAmerica's Unwritten ConstitutionThe Unnatural Nature of ScienceThe Family's Construction of RealityScience in Traditional ChinaNew Books by FieldingSequestered Vales of LifeLore and Science in Ancient PythagoreanismThe Milky WayThe Ends of Human LifeIt Changed My LifeBilingualLife in SpaceUniverse in CreationBright Galaxies, Dark MattersCritique of Forms of LifeLife Through Time and SpaceMaking Sense of LifeThe CosmosThe X-Ray UniverseNeutron Stars

Hasidic People

In 1965, Vera Rubin was the first woman permitted to observe at Palomar Observatory. In the intervening years, she has become one of the world's finest and most respected astronomers. This particular collection of essays is compiled from work written over the past 15 years and deals with a variety of subjects in astronomy and astrophysics, specifically galaxies and dark matter. The book also contains biographical sketches of astronomers who have been colleagues and friends, providing a stimulating view of a woman in science. About the Author Since 1965 Vera Rubin has been a staff member at the Department of Terrestrial Magnetism of the Carnegie Institution of Washington. Dr.

Rubin has authored nearly 200 papers on the structure of our galaxy, motions within other galaxies, and large scale motions in the universe. She has been a distinguished visiting astronomer at the Cerro Tololo Inter American Observatory in Chile; a Chancellor's Distinguished Professor at the University of California, Berkeley; a President's Distinguished Visitor at Vassar College; and a Beatrice Tinsley visiting professor at the University of Texas, Austin.

The Transformation of Palestinian Politics

Emanual (oncology and medical ethics, Harvard) rejects the argument that recent issues of medical ethics are the result of new technologies, and contends that they are an inevitable consequence of liberal political values. He proposes a communitarian solution. Annotation copyrighted by Book News, Inc., Portland, OR

Revolution Until Victory?

A Fresh Map of Life

Indonesia east of Bali is perhaps the least known of all major cultural areas of Southeast Asia. Yet the anthropology of the region has long held a prominent place in the development of structuralist theories of marital exchange and symbolic classification. Falling in a distinguished lineage running from van Wouden to Levi-Strauss to Rodney Needham, The Flow of Life presents a comprehensive set of essays by a distinguished group of international scholars, which provides both a full picture of this culturally rich area and an important extension of earlier structuralist theory. This volume is bound

to become the standard source on the social anthropology of eastern Indonesia. But it is a work of more than regional significance, providing a variety of empirical resources to address the questions which lie at the bottom of much structuralist thought about mind and society: what is the nature of symbolic thought? how does consciousness intertwine with society and ecology? what is the difference between "primitive" and "modern" society?

Family Kaleidoscope

For liberals, the question “Do others live rightly?” seems to demand a follow-up question: “Who am I to judge?” Peaceful coexistence, in this view, is predicated on restraint from morally evaluating our peers. But Rahel Jaeggi argues that criticizing is not only valid but also useful. Moral judgment is no error—the error lies in how we go about it.

Remembering the Future

The lure of the stars -- An aspiring astronomer -- Cornell and the rotating universe -- Georgetown, Gamow and galaxies -- A professional astronomer at last -- The call of the dome -- The delight of discovery -- Adventures in Andromeda -- Bright light on dark matter -- The dynamic universe -- Speaking out for women -- Wonderful life.

What Stars Are Made Of

The world looks on, amazed, as Yasir Arafat and Yitzhak Rabin shake hands on the White House lawn. Unprecedented as the moment may be, the agreement between Israel and the Palestinian Liberation Organization is merely the latest

twist in one of the most remarkable tales in history--a story now told by Barry Rubin. Map.

Third Thoughts

Wolpert draws on the entire history of science, from Thales of Miletus to Watson and Crick, from the study of eugenics to the discovery of the double helix. The result is a scientist's view of the culture of science, authoritative, informed, and mercifully accessible to those who find cohabiting with this culture a puzzling experience.

The Flow of Life

We know the universe has a history, but does it also have a story of self-creation to tell? Yes, in Roy R. Gould’s account. He offers a compelling narrative of how the universe—with no instruction other than its own laws—evolved into billions of galaxies and gave rise to life, including humans who have been trying for millennia to comprehend it. Far from being a random accident, the universe is hard at work, extracting order from chaos. Making use of the best current science, Gould turns what many assume to be true about the universe on its head. The cosmos expands inward, not outward. Gravity can drive things apart, not merely together. And the universe seems to defy entropy as it becomes more ordered, rather than the other way around. Strangest of all, the universe is exquisitely hospitable to life, despite its being constructed from undistinguished atoms and a few unexceptional rules of behavior. Universe in Creation explores whether the emergence of life, rather than being a mere cosmic afterthought, may be written into the most basic laws of nature. Offering a fresh take on what brought the

world—and us—into being, Gould helps us see the universe as the master of its own creation, not tethered to a singular event but burgeoning as new space and energy continuously stream into existence. It is a very old story, as yet unfinished, with plotlines that twist and churn through infinite space and time.

Life in a Shell

One of the world's most captivating scientists challenges us to think about nature's foundations and the entanglement of science and society. Steven Weinberg, author of The First Three Minutes, offers his views on fascinating aspects of physics and the universe, but does not seclude science behind disciplinary walls, or shy away from politics.

From Here to There

Leading scientists offer a collection of essays that furnish illuminating explanations of recent discoveries in modern astrophysics--from the Big Bang to black holes--the possibility of life on other worlds, and the emerging technologies that make such research possible, accompanied by incisive profiles of such key figures as Carl Sagan and Georges Lemaetre. Original.

Woman and the Demon

Exoplanets

David Reiss presents a new model of family interaction grounded in the subtle and complex way in which a family

constructs its inner life and deals with the outside world. Based upon fifteen years of research, the book offers a new understanding of the covert processes that hold a family together and, with distressing frequency, pull it apart.

American Farm Life

The astonishing science of neutron stars and the stories of the scientists who study them. Neutron stars are as bewildering as they are elusive. The remnants of exploded stellar giants, they are tiny, merely twenty kilometers across, and incredibly dense. One teaspoon of a neutron star would weigh several million tons. They can spin up to a thousand times per second, they possess the strongest magnetic fields known in nature, and they may be the source of the most powerful explosions in the universe. Through vivid storytelling and on-site reporting from observatories all over the world, Neutron Stars offers an engaging account of these still-mysterious objects. Award-winning science journalist Katia Moskvitch takes readers from the vast Atacama Desert to the arid plains of South Africa to visit the magnificent radio telescopes and brilliant scientists responsible for our knowledge of neutron stars. She recounts the exhilarating discoveries, frustrating disappointments, and heated controversies of the past several decades and explains cutting-edge research into such phenomena as colliding neutron stars and fast radio bursts: extremely powerful but ultra-short flashes in space that scientists are still struggling to understand. She also shows how neutron stars have advanced our broader understanding of the universe—shedding light on topics such as dark matter, black holes, general relativity, and the origins of heavy elements like gold and platinum—and how we might one day use these

cosmic beacons to guide interstellar travel. With clarity and passion, Moskvitch describes what we are learning at the boundaries of astronomy, where stars have life beyond death.

Zwicky

In this engrossing social history of the New York Hasidic community based on extensive interviews, observation, newspaper files, and court records, Jerome Mintz combines historical study with tenacious investigation to provide a vivid account of social and religious dynamics. Hasidic People takes the reader from the various neighborhood settlements through years of growth to today's tragic incidents and conflicts. In an engaging style, rich with personal insight, Mintz invites us into this old world within the new, a way of life at once foreign and yet intrinsic to the American experience.

China's Intellectuals

Whether in family life, social interactions, or business negotiations, half the people in the world speak more than one language every day. Yet many myths persist about bilingualism and bilinguals. Does being bilingual mean you are equally fluent in two languages, or that you belong to two cultures, or even that you have multiple personalities? Can you become bilingual only as a child? Why do bilinguals switch from one language to another in mid-sentence? Will raising bilingual children confuse and delay their learning of any language? In a lively and often entertaining book, an international authority on bilingualism, son of an English mother and a French father, explores the many facets of bilingualism. In this book, Fran ç ois Grosjean draws on research, interviews, autobiographies, and the engaging

examples of bilingual authors. He describes the various strategies—some useful, some not—used by parents raising bilingual children, explains how children easily pick up and forget languages, and considers how bilingualism affects the experience and expression of emotions, thoughts, and dreams. This book shows that speaking two or more languages is not a sign of intelligence, evasiveness, cultural alienation, or political disloyalty. For millions of people, it's simply a way of navigating the complexities of life.

The Rise of the Arabic Book

Vera Rubin

Berio shares with us some musical experiences that "invite us to revise or suspend our relation with the past and to rediscover it as part of a future trajectory." His scintillating meditation on music and the ways of experiencing it reflects the composer's profound understanding of the history and contemporary practice of his art.

Cosmic Evolution

For this first English edition of his distinguished study of Pythagoreanism, Weisheit und Wissenschajt: Studien zu Pythagoras, Philolaos, und Platon, Walter Burkert has carefully revised text and notes, taking account of additional literature on the subject which appeared between 1962 and 1969. By a thorough critical sifting of all the available evidence, the author lays a new foundation for the understanding of ancient Pythagoreanism and in particular of the relationship within it of "lore" and "science." He shows that

in the twilight zone when the Greeks were discovering the rational interpretation of the world and quantitative natural science, Pythagoras represented not the origin of the new, but the survival or revival of ancient, pre-scientific lore or wisdom, based on superhuman authority and expressed in ritual obligation.

Cosmic Horizons

Astronomers have recently discovered thousands of exotic planets that orbit stars throughout our Milky Way galaxy. With his characteristic wit and style, Donald Goldsmith shows how these observations have already broadened our planetary horizons, and tells us what may come next, including the ultimate discovery: life beyond our home planet.

America's Unwritten Constitution

The little-known story of the sophisticated and vibrant Arabic book culture that flourished during the Middle Ages. During the thirteenth century, Europe's largest library owned fewer than 2,000 volumes. Libraries in the Arab world at the time had exponentially larger collections. Five libraries in Baghdad alone held between 200,000 and 1,000,000 books each, including multiple copies of standard works so that their many patrons could enjoy simultaneous access. How did the Arabic codex become so popular during the Middle Ages, even as the well-established form languished in Europe? Beatrice Gruendler's The Rise of the Arabic Book answers this question through in-depth stories of bookmakers and book collectors, stationers and librarians, scholars and poets of the ninth century. The history of the book has been written with an outsize focus on Europe. The role books played in shaping

the great literary cultures of the world beyond the West has been less known—until now. An internationally renowned expert in classical Arabic literature, Gruendler corrects this oversight and takes us into the rich literary milieu of early Arabic letters.

The Unnatural Nature of Science

A truly interdisciplinary endeavor, astrobiology looks at the evidence of astronomy, biology, physics, chemistry, and a host of other fields. A grand narrative emerges, beginning from the smallest, most common particles yet producing amazing complexity and order. Lucas Mix is a congenial guide through the depths of astrobiology, exploring how the presence of planets around other stars affects our knowledge of our own planet; how water, carbon, and electrons interact to form life as we know it; and how the processes of evolution and entropy act upon every living thing.

The Family's Construction of Reality

All humans share three origins: the beginning of our individual lives, the appearance of life on Earth, and the formation of our planetary home. Wallace Arthur combines embryological, evolutionary, and cosmological perspectives to tell the story of life on Earth and its potential to exist elsewhere in the universe.

Science in Traditional China

The history of science is replete with women getting little notice for their groundbreaking discoveries. Cecilia Payne-Gaposchkin, a tireless innovator who correctly theorized the

substance of stars, was one of them. It was not easy being a woman of ambition in early twentieth-century England, much less one who wished to be a scientist. Cecilia Payne-Gaposchkin overcame prodigious obstacles to become a woman of many firsts: the first to receive a PhD in astronomy from Radcliffe College, the first promoted to full professor at Harvard, the first to head a department there. And, in what has been called “the most brilliant PhD thesis ever written in astronomy,” she was the first to describe what stars are made of. Payne-Gaposchkin lived in a society that did not know what to make of a determined schoolgirl who wanted to know everything. She was derided in college and refused a degree. As a graduate student, she faced formidable skepticism. Revolutionary ideas rarely enjoy instantaneous acceptance, but the learned men of the astronomical community found hers especially hard to take seriously. Though welcomed at the Harvard College Observatory, she worked for years without recognition or status. Still, she accomplished what every scientist yearns for: discovery. She revealed the atomic composition of stars—only to be told that her conclusions were wrong by the very man who would later show her to be correct. In What Stars Are Made Of, Donovan Moore brings this remarkable woman to life through extensive archival research, family interviews, and photographs. Moore retraces Payne-Gaposchkin’s steps with visits to cramped observatories and nighttime bicycle rides through the streets of Cambridge, England. The result is a story of devotion and tenacity that speaks powerfully to our own time.

New Books by Fielding

Trundling along in essentially the same form for some 220 million years, turtles have seen dinosaurs come and go,

mammals emerge, and humankind expand its dominion. Is it any wonder the persistent reptile bested the hare? In this engaging book physiologist Donald Jackson shares a lifetime of observation of this curious creature, allowing us a look under the shell of an animal at once so familiar and so strange. Here we discover how the turtle's proverbial slowness helps it survive a long, cold winter under ice. How the shell not only serves as a protective home but also influences such essential functions as buoyancy control, breathing, and surviving remarkably long periods without oxygen, and how many other physiological features help define this unique animal. Jackson offers insight into what exactly it's like to live inside a shell—to carry the heavy carapace on land and in water, to breathe without an expandable ribcage, to have sex with all that body armor intervening. Along the way we also learn something about the process of scientific discovery—how the answer to one question leads to new questions, how a chance observation can change the direction of study, and above all how new research always builds on the previous work of others. A clear and informative exposition of physiological concepts using the turtle as a model organism, the book is as interesting for what it tells us about scientific investigation as it is for its deep and detailed understanding of how the enduring turtle "works."

Sequestered Vales of Life

Among those women was Friedan herself, who frankly recorded her astonishment, gratification, and anger as the movement she helped create grew beyond all her hopes, and then raced beyond her control into a sexual politics she found disturbing.

Lore and Science in Ancient Pythagoreanism

What do biologists want? If, unlike their counterparts in physics, biologists are generally wary of a grand, overarching theory, at what kinds of explanation do biologists aim? How will we know when we have made sense of life? Such questions, Evelyn Fox Keller suggests, offer no simple answers. Explanations in the biological sciences are typically provisional and partial, judged by criteria as heterogeneous as their subject matter. It is Keller's aim in this bold and challenging book to account for this epistemological diversity--particularly in the discipline of developmental biology. In particular, Keller asks, what counts as an explanation of biological development in individual organisms? Her inquiry ranges from physical and mathematical models to more familiar explanatory metaphors to the dramatic contributions of recent technological developments, especially in imaging, recombinant DNA, and computer modeling and simulations. A history of the diverse and changing nature of biological explanation in a particularly charged field, Making Sense of Life draws our attention to the temporal, disciplinary, and cultural components of what biologists mean, and what they understand, when they propose to explain life.

The Milky Way

Analyzes the Victorian conception of both demonic and divine nature of women in Victorian art and literature

The Ends of Human Life

Examines ideological conflict in China since 1960 and shows

how purges resulted when dissent exceeded official political limits

It Changed My Life

Fritz Zwicky was one of the most inventive and iconoclastic scientists of the twentieth century. Among other accomplishments, he was the first to infer the existence of dark matter. He also clashed with better-known peers and became a pariah in the scientific community. John Johnson, Jr.,'s biography brings this tempestuous maverick alive.

Bilingual

Chaisson addresses some of the most basic issues we can contemplate: the origin of matter and the origin of life, and the ways matter, life, and radiation interact and change with time. He designs for us an expansive yet intricate model depicting the origin and evolution of all material structures.

Life in Space

This book is a comprehensive overview and analysis of the Palestinians' travail as they move from revolutionary movement to state. Barry Rubin outlines the difficulties in the transition now under way arising from Palestinian history, society, and diplomatic agreements. He writes about the search for a national identity, the choice of an economic system, and the structure of government. Rubin finds the political system interestingly distinctive--it appears to be a pluralist dictatorship. There are free elections, multiple parties, and some latitude in civil liberties. Yet there is a relatively unrestrained chief executive and arbitrariness in

applying the law because of restraints on freedom. The new ruling elite is a complex mixture of veteran revolutionaries, heirs to large and wealthy families, professional soldiers, technocrats, and Islamic clerics. Beyond explaining how the executive and legislative branches work, Rubin factors in the role of public opinion in the peace process, the place of nongovernmental institutions, opposition movements, and the Palestinian Authority's foreign relations--including Palestinian views and interactions with the Arab world, Israel, and the United States. This book is drawn from documents in Arabic, Hebrew, and English, as well as interviews and direct observations. Rubin finds that, overall, the positive aspects of the Palestinian Authority outweigh the negative, and he foresees the establishment of a Palestinian state. His charting of the triumphs and difficulties of this state-in-the-making helps predict and explain future dramatic developments in the Middle East.

Universe in Creation

By means of a series of personal anecdotes, protocols, fables, and plays, the eminent family therapist probes and assesses the role of the individual within the family and the social, political, and legal contexts of the family

Bright Galaxies, Dark Matters

A wise and insightful exploration of human navigation, what it means to be lost, and how we find our way. How is it that we can walk unfamiliar streets while maintaining a sense of direction? Come up with shortcuts on the fly, in places we've never traveled? The answer is the complex mental map in our brains. This feature of our cognition is easily taken for

granted, but it's also critical to our species' evolutionary success. In From Here to There Michael Bond tells stories of the lost and found—Polynesian sailors, orienteering champions, early aviators—and surveys the science of human navigation. Navigation skills are deeply embedded in our biology. The ability to find our way over large distances in prehistoric times gave Homo sapiens an advantage, allowing us to explore the farthest regions of the planet. Wayfinding also shaped vital cognitive functions outside the realm of navigation, including abstract thinking, imagination, and memory. Bond brings a reporter's curiosity and nose for narrative to the latest research from psychologists, neuroscientists, animal behaviorists, and anthropologists. He also turns to the people who design and expertly maneuver the world we navigate: search-and-rescue volunteers, cartographers, ordnance mappers, urban planners, and more. The result is a global expedition that furthers our understanding of human orienting in the natural and built environments. A beguiling mix of storytelling and science, From Here to There covers the full spectrum of human navigation and spatial understanding. In an age of GPS and Google Maps, Bond urges us to exercise our evolved navigation skills and reap the surprising cognitive rewards.

Critique of Forms of Life

Don K. Price seeks the cause of the nation's inability to develop coherent policies and manage consistent programs and finds it in American attitudes toward authority. This country's managerial disarray can be traced to religious and philosophical roots of our informal system of government and its development. Price shows how a native American skepticism toward all establishments, combined with a belief

in the role of science as advancing progress, has given us a moralistic, reformist view of government that rejects compromise even for the sake of coherence and continuity. This is unlike the experience of Great Britain and Canada, which he relates in a series of incisive comparisons.

Life Through Time and Space

Traces the history of Chinese science, including the development of acupuncture, gunpowder, and mechanical clocks, and compares it with the science of neighboring nations

Making Sense of Life

The prospect of spending long years in reasonable health and scarcely impaired activity, far beyond the convenient landmark of retirement, has already become the norm--without anybody really noticing it, let alone appreciating the implications. In this highly original and perhaps controversial book, Peter Laslett urges us to plan ahead for personal enrichment--before retirement and before the children leave home--before we reach the Third Age.

The Cosmos

A catalogue of 75 items from the Hyde Collection pertaining to Henry Fielding that were on display at an exhibition at Houghton Library in 1987.

The X-Ray Universe

Beyond the range of optical perception--and of ordinary

imaginings--a new and violent universe lay undetected until the advent of space exploration. Supernovae, black holes, quasars and pulsars--these were the secrets of the highenergy world revealed when, for the first time, astronomers attached their instruments to rockets and lofted them beyond the earth's x-ray-absorbing atmosphere. The X-Ray Universe is the story of these explorations and the fantastic new science they brought into being. It is a first-hand account: Riccardo Giacconi is one of the principal pioneers of the field, and Wallace Tucker is a theorist who worked closely with him at many critical periods. The book carries the reader from the early days of the Naval Research Laboratory through the era of V-2 rocketry, Sputnik, and the birth of NASA, to the launching of the Einstein X-Ray Observatory. But this is by no means just a history. Behind the suspenseful, sometimes humorous details of human personality grappling with high technology lies a sophisticated exposition of current cosmology and astrophysics, from the rise and fall of the steady-state theory to the search for the missing mass of the universe.

Neutron Stars

An exciting introduction to astronomy, using recent discoveries and stunning photography to inspire non-science majors about the Universe and science.

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