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A Critical Introduction to International Criminal Law

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Reductionism's approach brings together many of the most interesting questions today in philosophy (consciousness and computers) and in science (issues of complexity and self-organization). It also presents a brief history of how reductionism has developed in Western philosophy and religion, with reference to Indian philosophy on certain issues.

Merriam-Webster's Encyclopedia of Literature

Plato's *Timaeus* is one of the most influential and challenging works of ancient philosophy to have come down to us. Sarah Broadie's rich and compelling study proposes new interpretations of major elements of the *Timaeus*, including the separate Demiurge, the cosmic 'beginning', the 'second mixing', the Receptacle and the Atlantis story. Broadie shows how Plato deploys the mythic themes of the *Timaeus* to convey fundamental philosophical insights and examines the profoundly differing methods of interpretation which have been brought to bear on the work. Her book is for everyone interested in Ancient Greek philosophy, cosmology and mythology, whether classicists, philosophers, historians of ideas or historians of science. It offers new findings to scholars familiar with the material, but it is also a clear and reliable resource for anyone coming to it for the first time.

Dissertation Abstracts International

Consciousness

This open access book chronicles the rise of a new scientific paradigm offering novel insights into the age-old enigmas of existence. Over 300 years ago, the human mind discovered the machine code of reality: mathematics. By utilizing abstract thought systems, humans began to decode the workings of the cosmos. From this understanding, the current scientific paradigm emerged, ultimately discovering the gift of technology. Today, however, our island of knowledge is surrounded by ever longer shores of ignorance. Science appears to have hit a dead end when confronted with the nature of reality and consciousness. In this fascinating and accessible volume, James Glattfelder explores a radical paradigm shift uncovering the ontology of reality. It is found to be information-theoretic and participatory, yielding a computational and programmable universe.

Dopamine

Our experience of a unified sense of the self is underwritten by a multiplicity of self-aspects having very different metaphysical commitments. Our experience of unity is provided by a process-which, under certain clinical conditions, is rendered inoperative-that enables a person to experience mental states as personally owned.

ABM

This exciting book—presented in full color—considers

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"climate," ultimately, to be an expression of the fundamental task of Gaia, the being of Earth. It expresses the relationship between the more inanimate and mechanized forces of the planet as a physical being and the more inward, biographically evolutionary journey of Earth as an ensouled being, embedded within the larger cosmic drama. The Earth is much more than rocks, water, gas, and heat. It is more than the combined forces in all of the living bodies it selflessly supports. The destiny of Earth as a being of cosmic import weaves intimately with humanity's destiny. At the center of this book is the idea that the climate crisis is one shared by humanity and the Earth as part of our mutual evolution toward higher states of consciousness. Not only is Earth the source of our body, but the Earth also now depends on our efforts to shift our consciousness toward goals higher than self-satisfaction, entertainment, and consumption. Climate is the interface that displays the results of our efforts to attain higher consciousness for all of the cosmos to see and evaluate. In a technically sound, yet highly accessible, discussion of how our Earth's complex climate system works, Dennis Klocek takes the reader through various climate and weather patterns, using case studies of recent events, explaining terms and phenomena, all with the goal of helping us understand the Earth's soul, within which we live and develop as human beings. He describes and explains the earthly and extra-earthly forces behind weather patterns such as draughts, floods, and hurricanes, showing how larger patterns such as El Niño and El Niña develop and affect the complex systems that form weather events. In his surprising final chapter,

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"Moral Roots of the Climate Crisis," the author discusses the development of human science and consciousness. He contrasts, for example, the geometrical-metaphysical approach of Kepler to the emergence of the computational-mathematical brilliance of Isaac Newton, illustrating the ongoing split in approaches to the study of the natural world. An overly quantitative view of our world has led humankind mostly to dominate, subdue, and take from nature, categorizing our Earth as a numerical rock, permeated by forces completely beyond the control of, and sometimes at direct odds with, human soul activity. We live on a planet that is alive and whose soul is composed of the tremendously vital sequences of climate patterns that unite all lands and all humans in one organism. From this cosmological perspective, it may be possible to imagine morally responsible scientific approaches to problem solving where human needs and the needs of the Earth as a living being interact in mutually harmonic ways. Climate is for anyone—meteorologists, climatologists, and nonspecialists alike—who would like a deeper understanding our Earth's soul and the "whys" and "hows" of today's increasingly extreme weather patterns.

The Oxford Handbook of Montaigne

Humiliation, Degradation, Dehumanization

Although it is on occasion important and useful to

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distinguish between factual claims and value judgments, the distinction becomes, Hilary Putnam argues, positively harmful when identified with a dichotomy between the objective and the purely "subjective."

Critical Thinking Unleashed

In 1580, Michel de Montaigne (1533-1592) published a book unique by its title and its content: *Essays*. A literary genre was born. At first sight, the *Essays* resemble a patchwork of personal reflections, but they engage with questions that animate the human mind, and tend toward a single goal: to live better in the present and to prepare for death. For this reason, Montaigne's thought and writings have been a subject of enduring interest across disciplines. This Handbook brings together essays by prominent scholars that examine Montaigne's literary, philosophical, and political contributions, and assess his legacy and relevance today in a global perspective. The chapters of this Handbook offer a sweeping study of Montaigne across different disciplines and in a global perspective. One section covers the historical Montaigne, situating his thought in his own time and space, notably the Wars of Religion in France. The political, historical and religious context of Montaigne's *Essays* requires a rigorous presentation to inform the modern reader of the issues and problems that confronted Montaigne and his contemporaries in his own time. In addition to this contextual approach to Montaigne, the Handbook also establishes a connection between Montaigne's

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writings and issues and problems directly relevant to our modern times, that is to say, our age of global ideology. Montaigne's considerations, or essays, offer a point of departure for the modern reader's own assessments. The Essays analyze what can be broadly defined as human nature, the endless process by which the individual tries to impose opinions upon others through the production of laws, policies or philosophies. Montaigne's motto -- "What do I know?" -- is a simple question yet one of perennial significance. One could argue that reading Montaigne today teaches us that the angle defines the world we see, or, as Montaigne wrote: "What matters is not merely that we see the thing, but how we see it."

Waking From Sleep

In a book that is both groundbreaking and accessible, Daniel C. Dennett, whom Chet Raymo of The Boston Globe calls "one of the most provocative thinkers on the planet," focuses his unerringly logical mind on the theory of natural selection, showing how Darwin's great idea transforms and illuminates our traditional view of humanity's place in the universe. Dennett vividly describes the theory itself and then extends Darwin's vision with impeccable arguments to their often surprising conclusions, challenging the views of some of the most famous scientists of our day.

Bulletin of the Atomic Scientists

"A rich source of information about the world's finest literature. Over 10,000 entries and 250 illustrations

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covering authors, works, and literary terms and topics from all eras and all parts of the world. Includes pronunciations."

The Copernican Revolution

Jonathan Lowe argues that metaphysics should be restored to a central position in philosophy, as the most fundamental form of rational inquiry, whose findings underpin those of all other disciplines. He portrays metaphysics as charting the possibilities of existence, by identifying the categories of being and the relations of ontological dependency between entities of different categories. He proceeds to set out a unified and original metaphysical system: he defends a substance ontology, according to which the existence of the world's one world in time depends upon the existence of persisting things which retain their identity over time and through processes of qualitative change. And he contends that even necessary beings, such as the abstract objects of mathematics, depend ultimately for their existence upon there being a concrete world of enduring substances. Within his system of metaphysics Lowe seeks to answer many of the deepest and most challenging questions in philosophy.

The Possibility of Metaphysics

At Columbia University in 1906, William James gave a highly confrontational speech to the American Philosophical Association (APA). He ignored the technical philosophical questions the audience had

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gathered to discuss and instead addressed the topic of human energy. Tramping on the rules of academic decorum, James invoked the work of amateurs, read testimonials on the benefits of yoga and alcohol, and concluded by urging his listeners to take up this psychological and physiological problem. What was the goal of this unusual speech? Rather than an oddity, Francesca Bordogna asserts that the APA address was emblematic—it was just one of many gestures that James employed as he plowed through the barriers between academic, popular, and pseudoscience, as well as the newly emergent borders between the study of philosophy, psychology, and the “science of man.” Bordogna reveals that James’s trespassing of boundaries was an essential element of a broader intellectual and social project. By crisscrossing divides, she argues, James imagined a new social configuration of knowledge, a better society, and a new vision of the human self. As the academy moves toward an increasingly interdisciplinary future, William James at the Boundaries reintroduces readers to a seminal influence on the way knowledge is pursued.

Biomedical Ethics and the Law

Darwin's Dangerous Idea

In the forty years after he left Cambridge in 1864, Leslie Stephen (1832-1904) published thirty volumes of his own writings and contributed to another twenty books. He wrote literally hundreds of articles for

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British and American magazines and worked as editor of The Cornhill Magazine and of Alpine Journal as well as the Dictionary of National Biography. By any standards his literary career was successful, epitomising the life of the Victorian man of letters. But he was never completely satisfied with his endeavours. He remained self-effacing, adopting the pose of an amateur in a field in which, in fact, he was a superb professional; asking, 'Will not the twentieth century laugh at the nineteenth?' Contrary to his expectations, Leslie Stephen has not been relegated to the learned footnotes, as contemporary Victorian scholarship and Bloomsbury studies prove. This bibliography is an account of Leslie Stephen's entire writing and publishing career, based on the author's detailed research into his books and articles as well as unpublished, and in many cases, uncatalogued, autograph material in British and American libraries, museums and publishers' archives. Emphasis is on the composition, publication history and evolution of the works, including new editions and reissues of his books during Leslie Stephen's lifetime.

Ulysses

"I hold this book to be the most important expression which the present age has found; it is a book to which we are all indebted, and from which none of us can escape." T.S. Eliot Ulysses depicts a day in Leopold Bloom's life, broken into episodes analogous to Homer's Odyssey and related in rich, varied styles. Joyce's novel is celebrated for its depth of learning, earthy humor, literary allusions and piercing insight

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into the human heart. First published in Paris in 1922 Ulysses was not published in the United States until 1934. Immediately recognized as an extraordinary work that both echoed the history of English literature and took it in new, unheralded directions, Joyce's book was controversial. Its widespread release was initially slowed by censors nitpicking a few passages. The novel is challenging, in that it is an uncommon reader who will perceive all that Joyce has put into his pages upon first reading, but it is uniquely rewarding for anyone willing to follow where the author leads. Far more than a learned exercise in literary skill, Ulysses displays a sense of humor that ranges from delicate to roguish as well as sequences of striking beauty and emotion. Chief among the latter must be the novel's climactic stream of consciousness step into the mind of the protagonist's wife, Molly Bloom, whose open-hearted acceptance of life and love is among the most memorable and moving passages in English literature. With an eye-catching new cover, and professionally typeset manuscript, this edition of Ulysses is both modern and readable.

Conjectures and Refutations

Over the last few decades, research, activity, and funding has been devoted to improving the recruitment, retention, and advancement of women in the fields of science, engineering, and medicine. In recent years the diversity of those participating in these fields, particularly the participation of women, has improved and there are significantly more women entering careers and studying science, engineering,

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and medicine than ever before. However, as women increasingly enter these fields they face biases and barriers and it is not surprising that sexual harassment is one of these barriers. Over thirty years the incidence of sexual harassment in different industries has held steady, yet now more women are in the workforce and in academia, and in the fields of science, engineering, and medicine (as students and faculty) and so more women are experiencing sexual harassment as they work and learn. Over the last several years, revelations of the sexual harassment experienced by women in the workplace and in academic settings have raised urgent questions about the specific impact of this discriminatory behavior on women and the extent to which it is limiting their careers. *Sexual Harassment of Women* explores the influence of sexual harassment in academia on the career advancement of women in the scientific, technical, and medical workforce. This report reviews the research on the extent to which women in the fields of science, engineering, and medicine are victimized by sexual harassment and examines the existing information on the extent to which sexual harassment in academia negatively impacts the recruitment, retention, and advancement of women pursuing scientific, engineering, technical, and medical careers. It also identifies and analyzes the policies, strategies and practices that have been the most successful in preventing and addressing sexual harassment in these settings.

Mathematics & Mathematics Education: Searching for Common Ground

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The chemical basis of human emotions has been an exciting aspect in biology. The "feel-good chemical" dopamine (DA) is a hormone and also a neurotransmitter, which performs a critical role in reward and movement control in the brain. DA also performs multiple other functions outside the brain. Regulating unrelated critical biological functions makes this chemical a vital factor for sustaining life in both health and disease. Dopamine - Health and Disease is an endeavour with an objective to understand and appreciate the biological functions of DA in human wellbeing and its potential utility in biomedical research. This effort will supplement scientific and non-scientific communities in stimulating a critical understanding of the biological purpose of "ticklish" DA, which eventually supports the human relentless effort to reduce the burden of disease. As the most exciting molecule, dopamine directly impacts day-to-day life. Anyone who has an eye for health and disease-related concepts will find this book a good read.

A Discourse Upon the Origin and Foundation of the Inequality Among Mankind

For Descartes, knowledge exists as ideas in the mind that represent the world. In a radical critique, Hubert Dreyfus and Charles Taylor argue that knowledge consists of much more than the representations we formulate in our minds. They affirm our direct contact with reality—both the physical and the social world—and our shared understanding of it.

Lila

The significance of the plurality of the Copernican Revolution is the main thrust of this undergraduate text

Sexual Harassment of Women

How much of your waking time are you fully awake? On the other hand, how often do you stumble through the day on autopilot, half-asleep and out of contact with yourself, instead of feeling connected and alive? In this astounding book, Steve Taylor suggests that our normal consciousness is really a kind of "sleep" from which we sometimes "wake up" into a more intense and complete reality. He provides what is perhaps the first-ever clear explanation of higher states of consciousness, or "awakening experiences." This work delves into: • the methods we human beings have used throughout history to induce awakening experiences, including meditation, sex, sports, psychedelic drugs, and sleep deprivation • how higher states of consciousness were normal and natural to some of the world's peoples (and still are, in some cases) • and how we can make "wakefulness" our normal state again. By fully explaining awakening experiences, the author makes them much more accessible, which may lead to a revolution in our psychological development as human beings!

Leslie Stephen's Life in Letters

From alcohol and drug addiction to rage on national

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highways and in airports, many human beings have kept themselves in perpetual turmoil and despair. From encroachment on individual rights and liberties to wars of attrition and mass genocide, human history has continually repeated itself due to a failure to see the light. Containing numerous skill-building exercises, *Critical Thinking Unleashed* seeks to cultivate the reasoning skills required to overcome such destructive human tendencies and to live meaningful and productive lives in a democratic society. In contrast to other treatments of practical reasoning, Elliot D. Cohen not only teaches students how to identify and refute irrational premises—he also teaches them how to construct rational antidotes to combat the personal, social, and political obstacles they confront in everyday life. Moreover, Cohen encourages students to use the theories and ideas embodied in the history of philosophy in order to construct these rational guides, drawing examples from many contemporary sources. Demonstrating the practical relevance and import of many historically significant philosophers (e.g. Socrates, Aristotle, Epictetus, Hume, Kant, Mill, Sartre, and Nietzsche), the book presents a practical, non-technical, and comprehensive approach to critical thinking.

Nature and Divinity in Plato's Timaeus

Presents theories, practices and critiques alongside each other to engage students, scholars and professionals from multiple fields. This title is also available as Open Access on Cambridge Core.

Placebo

What is good science? What goal--if any--is the proper end of scientific activity? Is there a legitimating authority that scientists may claim? How serious a threat are the anti-science movements? These questions have long been debated but, as Gerald Holton points out, every era must offer its own responses. This book examines these questions not in the abstract but shows their historic roots and the answers emerging from the scientific and political controversies of this century. Employing the case-study method and the concept of scientific themata that he has pioneered, Holton displays the broad scope of his insight into the workings of science: from the influence of Ernst Mach on twentieth-century physicists, biologists, psychologists, and other thinkers to the rhetorical strategies used in the work of Albert Einstein, Niels Bohr, and others; from the bickering between Thomas Jefferson and the U.S. Congress over the proper form of federal sponsorship of scientific research to philosophical debates since Oswald Spengler over whether our scientific knowledge will ever be "complete." In a masterful final chapter, Holton scrutinizes the "anti-science phenomenon," the increasingly common opposition to science as practiced today. He approaches this contentious issue by examining the world views and political ambitions of the proponents of science as well as those of its opponents--the critics of "establishment science" (including even those who fear that science threatens to overwhelm the individual in the postmodern world) and the

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adherents of "alternative science" (Creationists, New Age "healers," astrologers). Through it all runs the thread of the author's deep historical knowledge and his humanistic understanding of science in modern culture. Science and Anti-Science will be of great interest not only to scientists and scholars in the field of science studies but also to educators, policymalcers, and all those who wish to gain a fuller understanding of challenges to and doubts about the role of science in our lives today.

Scientific Realism

In this bestselling new book, his first in seventeen years, Robert M. Pirsig, author of *Zen and the Art of Motorcycle Maintenance*, takes us on a poignant and passionate journey as mysterious and compelling as his first life-changing work. Instead of a motorcycle, a sailboat carries his philosopher-narrator Phaedrus down the Hudson River as winter closes in. Along the way he picks up a most unlikely traveling companion: a woman named Lila who in her desperate sexuality, hostility, and oncoming madness threatens to disrupt his life. In *Lila* Robert M. Pirsig has crafted a unique work of adventure and ideas that examines the essential issues of the nineties as his previous classic did the seventies.

The Gospel of the Pentateuch

This book is the fruit of a symposium in honor of Ted Eisenberg concerning the growing divide between the mathematics community and the mathematics

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education community, a divide that is clearly unhealthy for both. The work confronts this disturbing gap by considering the nature of the relationship between mathematics education and mathematics, and by examining areas of commonality as well as disagreement. It seeks to provide insight into the mutual benefit both stand to gain by building bridges based on the natural bonds between them.

Retrieving Realism

If you're interested in science fiction but crave something with a little more intellectual heft than your typical space opera, give David Lindsay's *A Voyage to Arcturus* a try. Widely praised by critics as one of the most philosophically advanced science fiction novels, the book follows two intrepid spiritual seekers through a series of remarkable interstellar adventures.

William James at the Boundaries

Degradation, dehumanization, instrumentalization, humiliation, and nonrecognition – these concepts point to ways in which we understand human beings to be violated in their dignity. Violations of human dignity are brought about by concrete practices and conditions; some commonly acknowledged, such as torture and rape, and others more contested, such as poverty and exclusion. This volume collates reflections on such concepts and a range of practices, deepening our understanding of human dignity and its violation, bringing to the surface interrelationships

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and commonalities, and pointing to the values that are thereby shown to be in danger. In presenting a streamlined discussion from a negative perspective, complemented by conclusions for a positive account of human dignity, the book is at once a contribution to the body of literature on what dignity is and how it should be protected as well as constituting an alternative, fresh and focused perspective relevant to this significant recurring debate. As the concept of human dignity itself crosses disciplinary boundaries, this is mirrored in the unique range of perspectives brought by the book's European and American contributors - in philosophy and ethics, law, human rights, literature, cultural studies and interdisciplinary research. This volume will be of interest to social and moral philosophers, legal and human rights theorists, practitioners and students.

Being Human: An Entheological Guide to God, Evolution and the Fractal Energetic Nature of Reality

"I am Ra. We came to your peoples to enunciate the Law of One. We wished to impress upon those who wished to learn of unity that in unity all paradoxes are resolved; all that is broken is healed; all that is forgotten is brought to light." For thousands of years those of Ra have sought to teach the Law of One to seekers of truth on Earth who wished to learn of the unity or oneness of all things. This basic law of all creation is buried deep within each of our hearts because we really are one in love and in light, the building blocks of the universe. We are all

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manifestations of the One Infinite Creator. We are the Creator. We are not learning this law for the first time but are remembering it yet again as all mystics have taught throughout Earth's history. Our journey of self-realization is the discovery or remembrance of this essential truth, our essential identity. A waking up, as some have called it, within an illusion of separation. Don Elkins and Carla L. Rueckert worked together for 12 years to perfect the channeling process and receive philosophical inspiration and guidance from extraterrestrial sources. When Jim McCarty joined them in 1980 they began to receive a new and unique type of channeling contact from those of Ra. Through this contact, Ra shared information to help seekers of truth deepen their awareness and acceptance of self and other, and to help Earth move into the emerging fourth density of love and understanding. This book is the transcript from the recording of that conversation between the Questioner and Ra. Through questions & answers, the metaphysical blueprint of spiritual evolution is explored, from the microcosm to the macrocosm, from the particulars of life on this planet to the life of the cosmos, to the possibilities of healing, transformation, and self-realization for spiritual seekers and wanderers. * * * * * The Ra Contact: Teaching the Law of One Volume 1 contains Ra contact sessions 1-56. As with all L/L Research material, this book can be read for free in PDF form on L/L's archive website.

Quantum Non-Locality and Relativity

Modern physics was born from two great revolutions:

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relativity and the quantum theory. Relativity imposed a locality constraint on physical theories: since nothing can go faster than light, very distant events cannot influence one another. Only in the last few decades has it become clear that the quantum theory violates this constraint. The work of J.S. Bell has demonstrated that no local theory can return the predictions of quantum theory. Thus it would seem that the central pillars of modern physics are contradictory.

Reductionism

The Self-aware Universe

Being Human is the extraordinary new book that articulates a grand unified vision of reality through the Entheological Paradigm. Skillfully avoiding all speculation and metaphysics, Martin W. Ball, Ph.D., presents a concise explanation for the fundamental nature of reality as the fractal expression of a Unitary Energy Being (God). Ball explores how intentional work with entheogens, such as 5-MeO-DMT, gives individuals direct access to their immediate energetic natures. Through such practices, individuals can liberate themselves from the restrictive confines of their illusion-bound egos and embrace their personalities and bodies as direct expressions of God in physical and conscious form. Radical in its implications, stunning for its simplicity, Being Human is humanity's long-awaited guide to genuine fulfillment, transcendence, and global harmony and

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peace. If you feel ready to understand and experience the truth for yourself, then Being Human is the only book you will ever need.

The Two Selves

It's about to become a philosophy of choice in the consciousness revolution. I gathered this intelligence at the Eugene home of Amit Goswami, Professor of Physics at the Institute of Theoretical Studies at the University of Oregon. At first glance, the book appears to be one of those 'new science' books that have become so popular. It does describe quite well the basic experiments of quantum physics, the ones that produce such paradoxes as the dual identity (wave and particle) of electrons and their ability to communicate at a distance with each other instantaneously (non-locality). But rather than simply leaving us with a 'Gee, whiz, isn't this incredible?' impression that the real world isn't as we assumed, Goswami boldly, yet very thoughtfully, introduces us to monistic idealism and suggests we accept it as a foundation for a new, and quite compelling, worldview.

The Collapse of the Fact/value Dichotomy and Other Essays

The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic "Doomsday Clock" stimulates solutions for a safer

world.

Climate

In the past few years an increasing number of colleges and universities have added courses in biomedical ethics to their curricula. To some extent, these additions serve to satisfy student demands for "relevance. " But it is also true that such changes reflect a deepening desire on the part of the academic community to deal effectively with a host of problems which must be solved if we are to have a health-care delivery system which is efficient, humane, and just. To a large degree, these problems are the unique result of both rapidly changing moral values and dramatic advances in biomedical technology. The past decade has witnessed sudden and conspicuous controversy over the morality and legality of new practices relating to abortion, therapy for the mentally ill, experimentation using human subjects, forms of genetic intervention, suicide, and euthanasia. Malpractice suits abound and astronomical fees for malpractice insurance threaten the very possibility of medical and health-care practice. Without the backing of a clear moral consensus, the law is frequently forced into resolving these conflicts only to see the moral issues involved still hotly debated and the validity of existing law further questioned. In the case of abortion, for example, the laws have changed radically, and the widely publicized recent conviction of Dr. Edelin in Boston has done little to foster a moral consensus or even render the exact status of the law beyond

reasonable question.

Computer & Control Abstracts

Can we really cure ourselves of disease by the power of thought alone? Faith healers and alternative therapists are convinced that we can, but what does science say? Contrary to public perception, orthodox medical opinion is remarkably confident about the healing powers of the mind. For the past fifty years, doctors have been taught that placebos such as sugar pills and water injections can relieve virtually any kind of medical condition. Yet placebos only work if you believe they work, so the medical confidence in the power of the placebo effect has provided scientific legitimacy to popular claims about the healing power of the mind. In this intriguing exploration, Dylan Evans exposes the flaws in the scientific research into the placebo effect and reveals the limits of what can and cannot be cured by thought alone. Drawing on new ideas in immunology and evolutionary biology, Evans proposes a new theory about how placebos work, and asks some searching questions about our concepts of health and disease

The Ra Contact: Teaching the Law of One:

Information—Consciousness—Reality

Abstracts of journal articles, books, essays, exhibition catalogs, dissertations, and exhibition reviews. The

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scope of ARTbibliographies Modern extends from artists and movements beginning with Impressionism in the late 19th century, up to the most recent works and trends in the late 20th century. Photography is covered from its invention in 1839 to the present. A particular emphasis is placed upon adding new and lesser-known artists and on the coverage of foreign-language literature. Approximately 13,000 new entries are added each year. Published with title LOMA from 1969-1971.

A Voyage to Arcturus

In which a scientist searches for an empirical explanation for phenomenal experience, spurred by his instinctual belief that life is meaningful. What links conscious experience of pain, joy, color, and smell to bioelectrical activity in the brain? How can anything physical give rise to nonphysical, subjective, conscious states? Christof Koch has devoted much of his career to bridging the seemingly unbridgeable gap between the physics of the brain and phenomenal experience. This engaging book--part scientific overview, part memoir, part futurist speculation--describes Koch's search for an empirical explanation for consciousness. Koch recounts not only the birth of the modern science of consciousness but also the subterranean motivation for his quest--his instinctual (if "romantic") belief that life is meaningful. Koch describes his own groundbreaking work with Francis Crick in the 1990s and 2000s and the gradual emergence of consciousness (once considered a "fringy" subject) as a legitimate topic for scientific

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investigation. Present at this paradigm shift were Koch and a handful of colleagues, including Ned Block, David Chalmers, Stanislas Dehaene, Giulio Tononi, Wolf Singer, and others. Aiding and abetting it were new techniques to listen in on the activity of individual nerve cells, clinical studies, and brain-imaging technologies that allowed safe and noninvasive study of the human brain in action. Koch gives us stories from the front lines of modern research into the neurobiology of consciousness as well as his own reflections on a variety of topics, including the distinction between attention and awareness, the unconscious, how neurons respond to Homer Simpson, the physics and biology of free will, dogs, *Der Ring des Nibelungen*, sentient machines, the loss of his belief in a personal God, and sadness. All of them are signposts in the pursuit of his life's work--to uncover the roots of consciousness.

Science and Anti-science

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