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Sponsored by the Army Capabilities Integration Center and in collaboration with the Joint Staff's Deputy Directorate for Global Operations (Strategic Multi-Layer Assessment Branch), this report examines the emergence of gray zone competition and conflict as important pacers for U.S. defense strategy. The authors argue that gray zone challenges are unique defense-relevant issues sharing three common characteristics-hybridity, menace to defense and military convention, and profound and paralyzing risk-confusion. This report and its authors offer an important opening venture into a vexing strategic question for senior defense and military leadership on the subject of gray zone threats. Namely, how can the American defense enterprise adjust to an era of relentless revisionist and rejectionist opposition to U.S. power? On the one hand, purposeful U.S. competitors pursue meaningful revision of the U.S.-led status quo through campaign-quality combinations of influence, intimidation, coercion, and aggression.

This Is A Remarkable Book. It Untangles The Many Complexities Of The Vedas And Combines Staal S Scholarly Respect For The Texts, With Explanations That

Are Lucid And Occasionally Witty. His Insights Are Thoughtful And Perceptive. Romila Thapar In This Unprecedented Guide To The Vedas, Frits Staal, The Celebrated Author Of Agni: The Vedic Ritual Of The Fire Altar And Universals: Studies In Indian Logic And Linguistics Examines Almost Every Aspect Of These Ancient Sources Of Indic Civilisation. Staal Extracts Concrete Information From The Oral Tradition And Archaeology About Vedic People And Their Language, What They Thought And Did, And Where They Went And When. He Provides Essential Information About The Vedas And Includes Selections And Translations. Staal Sheds Light On Mantras And Rituals, That Contributed To What Came To Be Known As Hinduism. Significant Is A Modern Analysis Of What We Can Learn From The Vedas Today: The Original Forms Of The Vedic Sciences, As Well As The Perceptive Wisdom Of The Composers Of The Vedas. The Author Puts Vedic Civilisation In A Global Perspective Through A Wide-Ranging Comparison With Other Indic Philosophies And Religions, Primarily Buddhism For Staal, Originally A Logician, The Voyage Of Discovering The Vedas Is Like Unpeeling An Onion But Without The Certainty Of Reaching An End. Even So, His Book Shows That The Vedas Have A Logic All Their Own. Accessible, Finely-Argued, And With A Wealth Of Information And Insight, Discovering The Vedas Is For Both The Scholar And The Interested Lay Reader.

Using the post 9/11 period as its backdrop, the book examines questions concerning the limits of government intrusion on protected Fourth Amendment rights. From the introduction of the U.S.A. PATRIOT Act and amendments to the Foreign Intelligence Surveillance Act (FISA) to the Terrorist Surveillance Program, the author develops and applies a normative ethical framework based on a legal proportionality test that can be applied to future cases involving U.S. foreign intelligence surveillance.

This book is a vivid reconstruction of ancient Egyptian religious rituals that were enacted in temples, tombs, and private homes.

The Periplus of the Erythraean Sea is a short work of uncertain date and unknown authorship, written in very difficult Greek. It is concerned with the coasts of the Red Sea and Indian Ocean and may be described as a combined trade directory and Admiralty Handbook, giving sailing directions and information about navigational hazards, harbours, imports and exports. It is of great value for the study of the commerce of the Roman Empire and the early history of East Africa, South Arabia and India. This is a new print-on-demand hardback edition of the volume first published in 1980.

How Germany failed to recognize that their wireless signals had been compromised by the Allies.

Acid-Base Balance and Nitrogen Excretion in Invertebrates Mechanisms and Strategies in Various Invertebrate Groups with Considerations of Challenges Caused by Ocean Acidification Springer

Sequel to: Rules of engagement?: a social anatomy of an American war crime in Iraq: Operation Iron Triangle. c2008.

Technical collection represents the largest asymmetric edge that technologically advanced countries such as the United States and its allies have in the intelligence business. Intelligence veteran Robert M. Clark's new book offers a succinct, logically organized, and well written overview of technical collection, explained at a non technical level for those new to the field. Filling a void in the literature, The Technical Collection of Intelligence is the only book that comprehensively examines the collection, processing, and exploitation of non-literal intelligence information, including laser, acoustic, and infrared signals; non-imaging optical intelligence sources; and radar tracking and measurement of aerospace vehicles. A compelling final chapter addresses the substantial challenges that come with managing technical collection. A stunning full-color interior design features high quality graphics while a handy "tabs" feature keeps content at the ready. A useful list of recommended books and reports, a glossary of terms, and a list of acronyms make this guide a go-to resource. Technical

Collection will prove invaluable to all source analysts, managers of technical collection, customers of intelligence, and recruiters for the intelligence community.

This program deals with hunter-gatherer cultural change and continuity in the Middle Holocene of the Cis-Baikal, Siberia. From about 9000 to 3000 BP, the Baikal area was successively inhabited by two major groups-the Kitoi, who date to the Late Mesolithic and Early Neolithic, and the Serovo-Glazkovo, who date from the Middle through Late Neolithic to Bronze Age. A distinct feature is a discontinuity separating the groups. Eleven papers highlight the interdisciplinary and international nature of the project and an important introduction to Russian perspectives.

In the decade preceding the first U.S. combat operations in Vietnam, the Eisenhower administration sought to defeat a communist-led insurgency in neighboring Laos. Although U.S. foreign policy in the 1950s focused primarily on threats posed by the Soviet Union and the People's Republic of China, the American engagement in Laos evolved from a small cold war skirmish into a superpower confrontation near the end of President Eisenhower's second term. Ultimately, the American experience in Laos foreshadowed many of the mistakes made by the United States in Vietnam in the 1960s. In Before the Quagmire:

American Intervention in Laos, 1954--1961, William J. Rust delves into key policy decisions made in Washington and their implementation in Laos, which became first steps on the path to the wider war in Southeast Asia. Drawing on previously untapped archival sources, *Before the Quagmire* documents how ineffective and sometimes self-defeating assistance to Laotian anticommunist elites reflected fundamental misunderstandings about the country's politics, history, and culture. The American goal of preventing a communist takeover in Laos was further hindered by divisions among Western allies and U.S. officials themselves, who at one point provided aid to both the Royal Lao Government and to a Laotian general who plotted to overthrow it. *Before the Quagmire* is a vivid analysis of a critical period of cold war history, filling a gap in our understanding of U.S. policy toward Southeast Asia and America's entry into the Vietnam War.

Electrostatics - Magnetostatic field and quasi-stationary electromagnetic fields - Circuit analysis - Electromagnetic waves - Relativity, particle-field interactions.

There is a paradox in American Christianity. According to Gallup, nearly eight in ten Americans regard the Bible as either the literal word of God or the inspired by God. At the same time, surveys have revealed gaps in these same Americans' biblical literacy. These discrepancies reveal the complex relationship between American Christians and Holy Writ, a subject that is widely acknowledged but

rarely investigated. *The Bible in American Life* is a sustained, collaborative reflection on the ways Americans use the Bible in their personal lives. It also considers how other influences, including religious communities and the internet, shape individuals' comprehension of scripture. Employing both quantitative methods (the General Social Survey and the National Congregations Study) and qualitative research (historical studies for context), *The Bible in American Life* provides an unprecedented perspective on the Bible's role outside of worship, in the lived religion of a broad cross-section of Americans both now and in the past. The Bible has been central to Christian practice, and has functioned as a cultural touchstone, throughout American history, but too little is known about how people engage it every day. How do people read the Bible for themselves outside of worship? How have denominational and parachurch publications influenced the interpretation and application of scripture? How have clergy and congregations influenced individual understandings of scripture? These questions are especially pressing in a time when denominations are losing much of their traditional cultural authority, technology is changing reading and cognitive habits, and subjective experience is continuing to eclipse textual authority as the mark of true religion. From the broadest scale imaginable, national survey data about all Americans, down to the smallest details, such as the portrayal of Noah and his

ark in children's Bibles, this book offers insight and illumination from scholars across the intellectual spectrum. It will be useful and informative for scholars seeking to understand changes in American Christianity as well as clergy seeking more effective ways to preach and teach about scripture in a changing environment.

This sweeping history of the development of professional, institutionalized intelligence examines the implications of the fall of the state monopoly on espionage today and beyond. During the Cold War, only the alliances clustered around the two superpowers maintained viable intelligence endeavors, whereas a century ago, many states could aspire to be competitive at these dark arts. Today, larger states have lost their monopoly on intelligence skills and capabilities as technological and sociopolitical changes have made it possible for private organizations and even individuals to unearth secrets and influence global events. Historian Michael Warner addresses the birth of professional intelligence in Europe at the beginning of the twentieth century and the subsequent rise of US intelligence during the Cold War. He brings this history up to the present day as intelligence agencies used the struggle against terrorism and the digital revolution to improve capabilities in the 2000s. Throughout, the book examines how states and other entities use intelligence to create, exploit, and protect

secret advantages against others, and emphasizes how technological advancement and ideological competition drive intelligence, improving its techniques and creating a need for intelligence and counterintelligence activities to serve and protect policymakers and commanders. The world changes intelligence and intelligence changes the world. This sweeping history of espionage and intelligence will be welcomed by practitioners, students, and scholars of security studies, international affairs, and intelligence, as well as general audiences interested in the evolution of espionage and technology. The book explores the variety of meanings of contextuality across different disciplines, with the emphasis on quantum physics and on psychology. Contents: Conversations on Contextuality (Ehtibar N Dzhafarov & Janne V Kujala) Contextual Semantics (Samson Abransky) From Coupling to Copula (Hans Colonius) Einstein, Bohm, and Leggett-Garg (Guido Bacciagaluppi) It is the Theory Which Decides What We Can Observe (Thomas Filk) Reality, Contextuality, and Probability in Quantum Theory and Beyond (Arkady Plotnitsky) Contextual Emergence (Harald Atmanspacher) Contextuality in Physics and Quantum Cognition (J Acacio de Barros & Gary Oas) End-Directedness and Context in Nonliving Dissipative Systems (James A Dixon, Dilip Kondepudi, Bruce A Kay & Tehran J Davis) Foregrounding the Background (J Scott Jordan, Jiuyang Bai, Vincent Cialdella & Daniel Schloesser) Symmetry-Breaking in Multiagent Coordination (Michael J

Richardson & Rachel W Kallen) Probabilistic Contextuality (Janne V Kujala & Ehtibar N Dzhafarov) Quantum Thinking and Counterfactual Reasoning (Louis Narens) Quantum Theory, Active Information and the Mind-Matter Problem (Paavo Pylkkänen) Principles Defining Quantum Mechanics (Gary Oas & J Acacio de Barros) Our (Represented) World: A Quantum-Like Object (Ariane Lambert-Mogiliansky & Francois Dubois) Why Would You Want to Borrow from My Discipline? (Emmanuel Haven) Quantum Information Biology (Masanari Asano, Irina Basieva, Andrei Khrennikov, Masanori Ohya, Yoshiharu Tanaka & Ichiro Yamato) Similarity Judgments: From Classical to Complex Vector Psychological Spaces (Albert Barque Duran, Emmanuel M Pothos, James M Yearsley, James A Hampton, Jerome R Busemeyer & Jennifer S Trueblood) A Quantum Bayes Net Approach to Causal Reasoning (Jennifer S Trueblood, Percy K Mistry & Emmanuel M Pothos) Readership: Researchers in quantum physics, mathematical modelling and cognitive science. Key Features: It is historically the first book dedicated entirely to contextuality. It is interdisciplinary, involving quantum physicists, computer scientists, mathematicians, analytic philosophers, economists, and psychologists. Its chapters are written by leading specialists in these various fields. Keywords: Contextuality; Quantum Physics; Psychology

This is the most complete handbook on the quantum theory of angular momentum. Containing basic definitions and theorems as well as relations, tables of formula and numerical tables which are essential for applications to many physical problems, the

book is useful for specialists in nuclear and particle physics, atomic and molecular spectroscopy, plasma physics, collision and reaction theory, quantum chemistry, etc. The authors take pains to write many formulae in different coordinate systems thus providing users with added ease in consulting this book. Each chapter opens with a comprehensive list of its contents to ease the search for any information needed later. New results relating to different aspects of the angular momentum theory are also included. Containing close to 500 pages this book also gathers together many useful formulae besides those related to angular momentum. The book also compares different notations used by previous authors.

This title combines two of spymaster Barton Whaley's most potent analyses of the craft: Turnabout: Crafting the Double-Cross and When Deception Fails: The Theory of Outs. Each examination dives into extensive case studies to establish not only bedrock understandings of essential espionage principals, but also creates guidance for their practical application on both individual and governmental scales. Deception is a basic tactic used by allies and enemies alike, but when both protagonist and antagonist ply the same trade, it is the master of the double-cross who comes out the victor.

Turnabout examines exactly how to turn the tables on an opponent and use their own deception against them. Through 38 case studies this monograph dissects the double-cross to reveal the psychological battle of wits at its core. No matter how well crafted, however, there is always a chance that a deception will fail. But failure is not the end of

a deception, and even failed deception operations can yield results. When Deception Fails pores over 60 case studies to determine why a deception will fail, steps to prevent a failed operation, and how to turn that failure into a success. Through his analysis of the Theory of Outs, Whaley identifies the cunning required to recapture the initiative rather than allowing an error to turn an operation into a total loss.

This upper level textbook provides a coherent introduction to the economic implications of individual and population ageing. Placing economic considerations into a wider social sciences context, this is ideal reading not only for advanced undergraduate and masters students in economics, health economics and the economics of ageing, but also policy makers, students, professionals and practitioners in gerontology, sociology, health-related sciences and social care. This volume introduces the different conceptualisations of age and definitions of 'old age', as well as the main theories of individual ageing as developed in the disciplines of biology, psychology and sociology. It covers the economic theories of fertility, mortality and migration and describes the four main frameworks that can be used to study economics and ageing, namely the life cycle, the overlapping generations, the perpetual youth and the dynastic models. A radical reinterpretation of the Pyramid Texts as shamanic mystical wisdom rather than funerary rituals • Reveals the mystical nature of Egyptian civilization denied by orthodox Egyptologists • Examines the similarity between the pharaoh's afterlife voyage and shamanic journeying • Shows shamanism to be the foundation of the

Egyptian mystical tradition To the Greek philosophers and other peoples of the ancient world, Egypt was regarded as the home of a profound mystical wisdom. While there are many today who still share that view, the consensus of most Egyptologists is that no evidence exists that Egypt possessed any mystical tradition whatsoever. Jeremy Naydler's radical reinterpretation of the Pyramid Texts--the earliest body of religious literature to have survived from ancient Egypt--places these documents into the ritual context in which they belong. Until now, the Pyramid Texts have been viewed primarily as royal funerary texts that were used in the liturgy of the dead pharaoh or to aid him in his afterlife journey. This emphasis on funerary interpretation has served only to externalize what were actually experiences of the living, not the dead, king. In order to understand the character and significance of the extreme psychological states the pharaoh experienced--states often involving perilous encounters with alternate realities--we need to approach them as spiritual and religious phenomena that reveal the extraordinary possibilities of human consciousness. It is the shamanic spiritual tradition, argues Naydler, that is the undercurrent of the Pyramid Texts and that holds the key to understanding both the true nature of these experiences and the basis of ancient Egyptian mysticism.

Contents

Unlike sleights of hand, which fool the senses, sleights of mind challenge cognition. This book defines and explains cognitive deception and explores six prominent

potential historical instances of it: the Cross of King Arthur, Drake's Plate of Brass, the Kensington Runestone, the Vinland Map, the Piltdown Man, and the Shroud of Turin. In spite of evidence contradicting their alleged origins, their stories continue to persuade many of their authenticity. Peter Hancock uses these purported hoaxes as case studies to develop and demonstrate fundamental principles of cognitive psychology. By dissecting each ostensible artifact, he illustrates how hoaxes can deceive us and offers us defenses against them. This book further examines how and why we allow others to deceive us and how and why we even deceive ourselves at times. Accessible to beginner and expert alike, Hoax Springs Eternal provides an essential interdisciplinary guide to cognitive deception.

This book presents 45 papers presented at a major international conference held at the British Museum during the 2017 BP exhibition 'Scythians: warriors of ancient Siberia'. Papers include new archaeological discoveries, results of scientific research and studies of museum collections, most presented in English for the first time.

Between the twelfth and sixteenth centuries, a distinct form of Islamic thought and practice developed among Muslim trading communities of the Indian Ocean. Sebastian R. Prange argues that this 'Monsoon Islam' was shaped by merchants not sultans, forged by commercial imperatives rather than in battle, and defined

by the reality of Muslims living within non-Muslim societies. Focusing on India's Malabar Coast, the much-fabled 'land of pepper', Prange provides a case study of how Monsoon Islam developed in response to concrete economic, socio-religious, and political challenges. Because communities of Muslim merchants across the Indian Ocean were part of shared commercial, scholarly, and political networks, developments on the Malabar Coast illustrate a broader, trans-oceanic history of the evolution of Islam across monsoon Asia. This history is told through four spaces that are examined in their physical manifestations as well as symbolic meanings: the Port, the Mosque, the Palace, and the Sea.

This compelling book reveals that the Creation Museum is a remarkably complex phenomenon, at once a “natural history” museum at odds with contemporary science, an extended brief for the Bible as the literally true and errorless word of God, and a powerful and unflinching argument on behalf of the Christian right.

This textbook provides a comprehensive overview on the diverse strategies invertebrate animals have developed for nitrogen excretion and maintenance of acid-base balance and summarizes the most recent findings in the field, obtained by state-of-the-art methodology. A broad range of terrestrial, freshwater and marine invertebrate groups are covered, including crustaceans, cephalopods, insects and worms. In addition the impact of current and future changes in ocean

acidification on marine invertebrates due to anthropogenic CO₂ release will be analyzed. The book addresses graduate students and young researchers interested in general animal physiology, comparative physiology and marine/aquatic animal physiology. Also it is an essential source for researchers dealing with the effects of increasing pCO₂ levels on aquatic animals, of which the vast majority are indeed invertebrates. All chapters are peer-reviewed.

Temporal logic is gaining recognition as an attractive and versatile formalism for rigorously specifying and reasoning about computer programs, digital circuits and message-passing systems. This book introduces Tempura, a programming language based on temporal logic, Tempura provides a way of directly executing suitable temporal logic specifications of digital circuits, parallel programs and other dynamic systems. Since every Tempura statement is also a temporal formula, the entire temporal logic formalism can be used as the assertion language and semantics. One result is that Tempura has the two seemingly contradictory properties of being a logic programming language and having imperative constructs such as assignment statements. The presentation investigates Interval Temporal Logic, a formalism with conventional temporal operators such as next and always as well as lesser known ones such as chop. This provides the basis for Tempura. The design of an interpreter for Tempura is

also included, as are a variety of sample Tempura programs illustrating how to model both hardware and software.

Sagalassos, once the metropolis of the Western Taurus range (Pisidia, Turkey), was only thoroughly surveyed in 1884 and 1885 by an Austrian team directed by K. Lanckoronski. In 1986-1989 this work was resumed by a British-Belgian team co-directed by Dr. Stephen Mitchell (University College of Swansea) and by Prof. Dr. Marc Waelkens (Catholic University of Leuven). In 1990 Sagalassos became a full scale Belgian project and a leading center for interdisciplinary archaeological and archaeometrical research. Due to its altitude, the site is one of the best preserved towns from classical antiquity, with a rich architectural and sculptural tradition dating from the second century BC to the sixth century AD. From early Imperial times until the early Byzantine period a complete range of coarse and red slip wares was produced locally. Excavations are concentrated on the upper and lower agoras to document the political and commercial life in the town and also in the area where a late Hellenistic fountain house, which still functions to date, and a Roman library were discovered. Major efforts are undertaken to restore the excavated monuments in their old glory. Several disciplines integrate the town again within its ancient environment and document the central role which Sagalassos played in the area.

Provides an accessible introduction to the Vedic religious world by focusing on the role of divine and human imagination in sacred texts.

The Hidden Hand is a succinct accessible and up-to-date survey of the Central Intelligence Agency's history from its inception in 1947 to the present. Covers both aspects of the CIA's mission – the collection and analysis of intelligence and the execution of foreign policy through covert, paramilitary operations De-mythologizes the CIA's role in America's global affairs while addressing its place within American political and popular culture Written by an esteemed scholar and high-ranking officer in the intelligence community, drawing on the latest research Assesses the agency's successes and failures, with an eye to the complex and controversial nature of the subject

The course of south Indian history from pre-historic times to the contemporary era is a complex narrative with many interpretations. Reflecting recent advances in the study of the region, this volume provides an assessment of the events and socio-cultural development of south India through a comprehensive analysis of its historical trajectory. Investigating the region's states and configurations, this book covers a wide range of topics that include the origins of the early inhabitants, formation of the ancient kingdoms, advancement of agriculture, new religious movements based on bhakti, and consolidation of centralized states in the medieval period. It further explores the growth of industries in relation to the development of East-West maritime trade in the Indian Ocean as well as the wave of Islamicization and the course of commercial relations with various European countries. The book then goes on to discuss the advent of early-modern state rule, impact of the raiyatwari system introduced by the British, debates

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about whether the region's economy developed or deteriorated during the eighteenth century, decline of matriliney in Kerala, emergence of the Dravidian Movement, and the intertwining of politics with contemporary popular culture. Well illustrated with maps and images, and incorporating new archaeological evidence and historiography, this volume presents new perspectives on a gamut of issues relating to communities, languages, and cultures of a macro-region that continues to fascinate scholars and readers alike.

This upper level textbook provides a coherent introduction to the economic implications of individual and population ageing. Placing economic considerations into a wider social sciences context, this is ideal reading not only for advanced undergraduate and masters students in health economics and economics of ageing, but policy makers, professionals and practitioners in gerontology, sociology, health-related sciences, and social care. This volume introduces topics in labour economics, including the economic implications of ageing workforces. It covers pension economics and pension systems with their macroeconomic and distributive effects, and the question of risk. Finally, it describes macroeconomic consequences of ageing populations on aggregate saving, inflation, international trade, and financial markets.

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