

Fossil Evidence Of The Evolution Of The Human Brain

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The Evolution of the Rheic Ocean
The Evolution of Technology
Regulation and the Evolution of the Global Telecommunications Industry
Echoes of the Past: Tracing the Evolution of Language
Alcohol and its Role in the Evolution of Human Society
The Evolution of Memory Systems
The Evolution of Primary Sexual Characters in Animals
The Evolution of the Messianic Idea
Evolutionary Anatomy of the Primate Cerebral Cortex
The Evolution of Immortality
Evolution of the Cerebellar Sense of Self
The Evolutionary World
The Evolution Underground
The Evolution of Cognition
The Evolution of the Airline Industry
Mineral Deposits and the Evolution of the Biosphere
The Bible Versus the Evolution Theory
Once We Were Hunters: A Study Of The Evolution Of Vascular Disease
The Evolution of Religion
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geological evolution of middle to late paleozoic rocks in the avalon terrane of northern mainland nova scotia canadian appalachians a record of tectonothermal activity along the northern margin of the rheic ocean in the appalachian caledonide orogen

three emerging themes challenge the popular notion that technology advances through the efforts of a few who produce a series of revolutionary inventions that owe little or nothing to the technological past

after decades of liberalization of the telecommunications industry around the world and technological convergence that allows for increasing competition sector specific regulation of telecommunications has been on the decline as a result the telecommunications industry stands in the middle of a debate that calls for either a total deregulation of access to broadband infrastructures or a separation of infrastructure from service delivery this book proposes new approaches to dealing with the current and future issues of regulation of telecommunication markets on both a regional and a global scale this volume represents a valuable compendium of ideas regarding global trends in the telecommunications industry that focus on market and regulatory issues and company strategies with an international cast of contributors regulation and the evolution of the global telecommunications industry also provides insight into topics including mobile internet development structural function and separation global experiences with next generation networks technology convergence and the role of regulation and the regulatory impact on the balance between static and dynamic efficiencies the empirical evidence and experiences presented here illustrate the diversity of thoughts and research that characterize this important area of academic and business research thus it will be a critical reference for scholars and students of regulatory economics policy and finance and researchers and administrators of the telecom industry

echoes of the past tracing the evolution of language takes readers on a captivating journey through the historical development of languages exploring the intricate processes of language change evolution contact and reconstruction from the origins of language to the future of language evolution in the digital age this book delves deep into the fascinating world of historical linguistics readers will uncover the rich tapestry of language families and genetic relationships as well as the impact of language contact and borrowing on linguistic evolution through discussions on sound change morphological shifts and lexical evolution this book sheds light on how languages transform over time shaping the way we communicate and express ourselves as readers explore the complexities of syntax dialect variation and the role of writing systems in language change they will gain a deeper understanding of how languages evolve and adapt to cultural social and technological influences from the preservation of endangered languages to the globalization of communication echoes of the past offers insights into the diverse factors that shape language evolution and its relationship to human culture with a comprehensive overview of historical linguistic methods and the importance of language reconstruction this book is a valuable resource for language enthusiasts academics and anyone interested in unraveling the mysteries of language evolution thought provoking and informative echoes of the past invites readers to ponder the future of language evolution and the profound impact it has on our understanding of human communication and culture back end

archaeologists and anthropologists especially ethnologists have for many years realised that man s ingestion of alcoholic beverages may well have played a significant part in his transition from hunter gatherer to agriculturalist this unique book provides a scientific text on the subject of ethanol that also aims to include material designed to show non scientists what fermentation is all about conversely scientists may well be surprised to find the extent to which ethanol has played a part in evolution and civilisation of our species

current theories about human memory have been shaped by clinical observations and animal experiments this doctrine holds that the medial temporal lobe subserves one memory system for explicit or declarative memories while the basal ganglia subserves a separate memory system for implicit or procedural memories including habits cortical areas outside the medial

temporal lobe are said to function in perception motor control attention or other aspects of executive function but not in memory the evolution of memory systems advances dramatically different ideas on all counts it proposes that several memory systems arose during evolution and that they did so for the same general reason to transcend problems and exploit opportunities encountered by specific ancestors at particular times and places in the distant past instead of classifying cortical areas in terms of mutually exclusive perception executive or memory functions the authors show that all cortical areas contribute to memory and that they do so in their own ways using specialized neural representations the book also presents a proposal on the evolution of explicit memory according to this idea explicit declarative memory depends on interactions between a phylogenetically ancient navigation system and a representational system that evolved in humans to represent one's self and others as a result people embed representations of themselves into the events they experience and the facts they learn which leads to the perception of participating in events and knowing facts the evolution of memory systems is an important new work for students and researchers in neuroscience psychology and biology

this edited volume explores primary sexual characters in a wide variety of animal taxa it provides an overview of sexual diversity the selective pressures that have shaped it and an introduction to the data and theoretical issues in sexual selection that are changing our view of sexual processes

studies of brain evolution have moved rapidly in recent years building on the pioneering research of harry j jerison this book provides reviews of primate including human brain evolution the book is divided into two sections the first gives new perspectives on the developmental physiological dietary and behavioural correlates of brain enlargement it has long been recognized however that brains do not merely enlarge globally as they evolve but that their cortical and internal organization also changes in a process known as reorganization species specific adaptations therefore have neurological substrates that depend on more than just overall brain size the second section explores these neurological underpinnings for the senses adaptations and cognitive abilities that are important for primates with a prologue by stephen j gould and an epilogue by harry j jerison this is an important reference work for all those working on brain evolution in primates

the cerebellum is an intriguing component of the brain in humans it occupies only 10 of the brain volume yet has approximately 69 billion neurons that is 80 of the nerve cells in the brain the cerebellum first arose in jawed vertebrates such as sharks and early vertebrates also have an additional cerebellum like structure in the hindbrain shark cerebellum like structures function as adaptive filters to discriminate self from other in sensory inputs it is likely that the true cerebellum evolved from these cerebellum like precursors and that their adaptive filter functionality was adopted for motor control paving the way for the athleticism and movement finesse that we see in swimming running climbing and flying vertebrates this book uses an evolutionary perspective to open up the exciting body of work that is cerebellar research to a wide audience understanding the brain is of interest to many people from many different backgrounds and for many different reasons therefore understanding cerebellum is a significant step towards the wider challenge of understanding the brain this book will be of interest to neuroscientists neurologists and psychologists in addition to computer scientists and engineers concerned with machine human interactions and robotics

one of the master naturalists of our time american scientist reveals how evolutionary theory explains and affects not just the natural world but our society and its future evolution has outgrown its original home in biology and geology the evolutionary world shows how evolution descent with modification is a concept that organizes explains and predicts a multitude of unconnected facts and phenomena adaptation plays a role not only in the development of new species but the development of human civilization by understanding how evolutionary theory has played out in areas such as our economic system our preparation for catastrophes and even the development of communities we can learn not just how these systems work but also what challenges lie ahead blind since the age of three dr geerat j vermeij has become renowned for his unique abilities to recognize details in the natural world that other scientists would never have noticed in this book he presents a new argument for evolution s broader importance he explores similarities between genomes and languages the contrasting natural economies of islands and continents the emergence and importance of human values the long range consequences of global warming and the perils of monopoly he also shows that the lessons of evolution have implications for education our system of laws and economic growth the evolutionary world makes a fascinating argument about the broad reaching impact and

importance of evolution it offers a way for us to understand and work with evolution's principles so that we can devise better solutions for our own lives society and the environment around us

humans have gone underground for survival for thousands of years from underground cities in turkey to cold war era bunkers but our burrowing roots go back to the very beginnings of animal life on earth many animal lineages alive now including our own only survived a cataclysmic meteorite strike 65 million years ago because they went underground on a grander scale the chemistry of the planet itself had already been transformed many millions of years earlier by the first animal burrows which altered whole ecosystems every day we walk on an earth filled with an underground wilderness teeming with life most of this life stays hidden yet these animals and their subterranean homes are ubiquitous ranging from the deep sea to mountains from the equator to the poles burrows are a refuge from predators a safe home for raising young or a tool to ambush prey burrows also protect animals against all types of natural disasters filled with spectacularly diverse fauna acclaimed paleontologist and ichnologist anthony martin reveals this fascinating hidden world that will continue to influence and transform life on this planet

in the last decade evolutionary psychology has come to refer exclusively to research on human mentality and behavior motivated by a nativist interpretation of how evolution operates this book encompasses the behavior and mentality of nonhuman as well as human animals and a full range of evolutionary approaches rather than a collection by and for the like minded it is a debate about how evolutionary processes have shaped cognition the debate is divided into five sections orientations on the phylogenetic ecological and psychological comparative approaches to the evolution of cognition categorization on how various animals parse their environments how they represent objects and events and the relations among them causality on whether and in what ways nonhuman animals represent cause and effect relationships consciousness on whether it makes sense to talk about the evolution of consciousness and whether the phenomenon can be investigated empirically in nonhuman animals and culture on the cognitive requirements for nongenetic transmission of information and the evolutionary consequences of such cultural exchange contributors bernard balleine patrick bateson michael j beran m e

bitterman robert boyd nicola clayton juan delius anthony dickinson robin dunbar d p griffiths bernd heinrich cecilia heyess
william a hillix ludwig huber nicholas humphrey masako jitsumori louis lefebvre nicholas mackintosh euan m macphail peter
richerson duane m rumbaugh sara shettleworth martina siemann kim sterelny michael tomasello laura weiser alexandra wells
carolyn wilczynski david sloan wilson

since the enactment of the airline deregulation act in 1978 questions that had been at the heart of the ongoing debate about the industry for eighty years gained a new intensity is there enough competition among airlines to ensure that passengers do not pay excessive fares can an unregulated airline industry be profitable is air travel safe while economic regulation provided a certain stability for both passengers and the industry deregulation changed everything a new fare structure emerged travelers faced a variety of fares and travel restrictions and the offerings changed frequently in the last fifteen years the airline industry's earnings have fluctuated wildly new carriers entered the industry but several declared bankruptcy and eastern pan am and midway were liquidated as financial pressures mounted fears have arisen that air safety is being compromised by carriers who cut costs by skimping on maintenance and hiring inexperienced pilots deregulation itself became an issue with many critics calling for a return to some form of regulation in this book steven a morrison and clifford winston assert that all too often public discussion of the issues of airline competition profitability and safety take place without a firm understanding of the facts the policy recommendations that emerge frequently ignore the long run evolution of the industry and its capacity to solve its own problems this book provides a comprehensive profile of the industry as it has evolved both before and since deregulation the authors identify the problems the industry faces assess their severity and their underlying causes and indicate whether government policy can play an effective role in improving performance they also develop a basis for understanding the industry's evolution and how the industry will eventually adapt to the unregulated economic environment morrison and winston maintain that although the airline industry has not reached long run equilibrium its evolution is proceeding in a positive direction one that will preserve and possibly enhance the benefits of deregulation to travelers and carriers they conclude that the federal government's primary policy objective should be to expand the benefits from unregulated market forces to international travel brookings review article also available

we emerged after millions of years of evolution first in the rainforest and then in the dry savanna bush this nomadic way of life was characterised by seasonal and geographical variation of food scarcity particularly of high energy food containing fats and sugar and walking as the main form of exercise with sudden bursts of energy either to catch prey or to avoid becoming prey society was organised into structured small groups contact among whom was very limited under normal conditions after this 25 million year period of evolution however we have now entered a period of de evolution in which we shape the world instead of it shaping us we now have plenty of food particularly fats sugar and proteins with regular social feedings even when we do not need food food in supermarkets is not subject to seasonal variations and we are fairly static physically watching television being more frequent than exercise without sudden use of high levels of energy socially there are too many people too much contact causing stress and confusion we must look to the small pockets of our former way of life which still survive in some parts of africa to explain our real evolutionary background and nature we cannot go back but knowing who we are will help us to survive and to create a better world according to our true evolutionary plan a

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Introduction

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