

PICADOR



ANIMAL WEAPONS

THE EVOLUTION
OF BATTLE

Douglas J. Emlen

WITH ILLUSTRATIONS BY DAVID J. TUSS



"Through personal stories, historical narrative, and detailed sketches, biologist Emlen charts the evolution of animal weapons so bizarre and gargantuan, it's amazing they even exist." — *Discover* magazine

Animal Weapons Evolution Douglas Emlen

RJ Shavelson



Animal Weapons Evolution Douglas Emlen:

Animal Weapons Douglas J. Emlen, 2014-11-11 Emlen takes us outside the lab and deep into the forests and jungles where he's been studying animal weapons in nature for years to explain the processes behind the most intriguing and curious examples of extreme animal weapons As singular and strange as some of the weapons we encounter on these pages are we learn that similar factors set their evolution in motion Emlen uses these patterns to draw parallels to the way we humans develop and employ our own weapons and have since battle began Animal Weapons Douglas J. Emlen, 2014-11-11

WINNER OF THE PHI BETA KAPPA AWARD IN SCIENCE The story behind the stunning extreme weapons we see in the animal world teeth and horns and claws and what they can tell us about the way humans develop and use arms and other weapons In Animal Weapons Doug Emlen takes us outside the lab and deep into the forests and jungles where he's been studying animal weapons in nature for years to explain the processes behind the most intriguing and curious examples of extreme animal weapons fish with mouths larger than their bodies and bugs whose heads are so packed with muscle they don't have room for eyes As singular and strange as some of the weapons we encounter on these pages are we learn that similar factors set their evolution in motion Emlen uses these patterns to draw parallels to the way we humans develop and employ our own weapons and have since battle began He looks at everything from our armor and camouflage to the evolution of the rifle and the structures human populations have built across different regions and eras to protect their homes and communities With stunning black and white drawings and gorgeous color illustrations of these concepts at work Animal Weapons brings us the complete story of how weapons reach their most outsized dramatic potential and what the results we witness in the animal world can tell us about our own relationship with weapons of all kinds Extraordinary Talents of the Animal Kingdom Zahid Ameer, 2024-04-01 Explore the awe inspiring animal intelligence and abilities world with the Extraordinary Talents of the Animal Kingdom eBook From problem solving prowess to astonishing hunting techniques discover the remarkable talents that define the diverse species of our planet Delve into captivating chapters on animal communication navigation skills and sensory adaptations unlocking the natural world's secrets It is a must read for anyone fascinated by the wonders of the animal kingdom Feminism in the Wild Ambika Kamath, Melina Packer, 2025-09-02 How dominant culture from sexism and homophobia to racism capitalism ableism and more has limited the science of animal behavior and how we can free ourselves from these limited perspectives In Feminism in the Wild Ambika Kamath and Melina Packer reveal how scientists studying animal behavior have long projected human norms and values onto animals while seeking to understand them When scientific studies conclude that these norms and values are natural in animals it makes it easier to think of them as natural in humans too And because scientists historically and to this day largely belong to elite powerful segments of society the norms and values embedded in animal behavior science match those of the already powerful How can animal behavior science escape this trap of naturalizing dominant culture Drawing from decades of

feminist antiracist queer disability justice and Marxist contributions including those of biologists Kamath and Packer break down persistent assumptions in the status quo of animal behavior science and offer a multitude of alternative approaches Core concepts in animal behavior science and evolutionary biology from sex categories and sexual selection to fitness adaptation biological determinism and more are carefully contextualized and critically reexamined This unique collaboration between an animal behavior scientist and a feminist science studies scholar is an illuminating and hopeful read for anyone who is curious about how animals behave and anyone who wants to break free from scientific approaches that perpetuate systems of oppression

Do Elephants Have Knees? Charles R. Ault, 2016-08-15 Thinking whimsically makes serious science accessible That s a message that should be taken to heart by all readers who want to learn about evolution Do Elephants Have Knees invites readers into serious appreciation of Darwinian histories by deploying the playful thinking found in children s books Charles R Ault Jr weds children s literature to recent research in paleontology and evolutionary biology Inquiring into the origin of origins stories Ault presents three portraits of Charles Darwin curious child twentysomething adventurer and elderly worm scientist Essays focusing on the origins of tetrapods elephants whales and birds explain fundamental Darwinian concepts natural selection for example with examples of fossil history and comparative anatomy The imagery of the children s story offers a way to remember and recreate scientific discoveries By juxtaposing Darwin s science with tales for children Do Elephants Have Knees underscores the importance of whimsical storytelling to the accomplishment of serious thinking Charles Darwin mused about duck beaks and swimming bears as he imagined a pathway for the origin of baleen A bearduck chimera may be a stretch but the science linking not just cows but also whales to moose through shared ancestry has great merit Teaching about shared ancestry may begin with attention to Bernard Wiseman s Morris the Moose Morris believes that cows and deer are fine examples of moose because they all have four legs and things on their heads No whale antlers are known but fossils of four legged whales are By calling attention to surprising and serendipitous echoes between children s stories and challenging science Ault demonstrates how playful thinking opens the doors to an understanding of evolutionary thought

A Most Interesting Problem Jeremy DeSilva, 2022-11-29 Leading scholars take stock of Darwin s ideas about human evolution in the light of modern science In 1871 Charles Darwin published *The Descent of Man* a companion to *Origin of Species* in which he attempted to explain human evolution a topic he called the highest and most interesting problem for the naturalist *A Most Interesting Problem* brings together twelve world class scholars and science communicators to investigate what Darwin got right and what he got wrong about the origin history and biological variation of humans Edited by Jeremy DeSilva and with an introduction by acclaimed Darwin biographer Janet Browne *A Most Interesting Problem* draws on the latest discoveries in fields such as genetics paleontology bioarchaeology anthropology and primatology This compelling and accessible book tackles the very subjects Darwin explores in *Descent* including the evidence for human evolution our place in the family tree the origins of civilization human races and sex differences *A Most*

Interesting Problem is a testament to how scientific ideas are tested and how evidence helps to structure our narratives about human origins showing how some of Darwin's ideas have withstood more than a century of scrutiny while others have not. A Most Interesting Problem features contributions by Janet Browne, Jeremy DeSilva, Holly Dunsworth, Agustín Fuentes, Ann Gibbons, Yohannes Haile Selassie, Brian Hare, John Hawks, Suzana Herculano Houzel, Kristina Killgrove, Alice Roberts, and Michael J. Ryan.

The Evolutionary World Geerat J. Vermeij, 2010-11-23 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.

Out of Eden David P. Barash, 2016-02-04 In this changing world of what is socially and politically correct, polygamy is perhaps the last great taboo. Over the last thousand years, monogamy, at least in name, has been the default setting for coupledness and procreation in the Western world. And yet throughout history, there have been inklings that one man, one woman is an uncomfortable institution for human beings. The consistently high rate of marital cheating by both sexes, plus the persistent interest in a variety of sexual partners on the part of women as well as men, suggest strongly that monogamy isn't easy and certainly isn't natural for either sex. Esteemed writer and evolutionary biologist David P. Barash tackles this uncomfortable finding: that humans are actually biologically and anthropologically inclined toward polygamy. Drawing on decades of research, Barash presents a remarkable array of scientific evidence from evolutionary biology and cross-cultural studies that guide the reader through the hidden impacts of polygamy on such crucial behavior as violence, parenting, sexual preferences, adultery, and efforts at monogamy itself, along with mind-bending speculation about the possible role of our polygamous predisposition when it comes to human genius, homosexuality, and even monotheism. But take heart, monogamists! Although our species has long been out of Eden, this fascinating read is ultimately reassuring that biology is not

destiny **Billions of Years, Amazing Changes** Laurence Pringle,2023-10-03 This highly engaging exploration of the concept of evolution lays out the history of life on earth what we know and how we know it Ever since Charles Darwin revealed his landmark ideas about evolution in 1859 new findings have confirmed expanded and refined his concepts This ALSC Notable children s book brings together the pillars of evidence that support our understanding of evolution In addition to stunning illustrations more than fifty photographs capture natural marvels including awe inspiring fossils life forms and geological wonders The result is a full and clear account of the monumental evidence supporting the modern view of evolution **Trend Following Mindset** Michael Covel,2021-04-20 Trend Following Mindset brings to life the timeless conversations between Tom Basso and Michael Covel originally featured on Michael s renowned Trend Following podcast In these profound and enlightening exchanges Tom shares with Michael his deep wisdom on trading business life and the how and why of his mindset Tom Basso dubbed Mr Serenity by Jack Schwager is one of the most experienced and knowledgeable trend following traders in the world today a trading legend who lives life to the fullest Tom s most important trend following research papers are presented together for the first time delivering a treasure trove of trading insights Michael also pulls from Tom his perspective on How to get started in trading What trend following is and how and why it works so well Constructing your trading system Position sizing and account management The work life balance of a trader The transition from independent trader to professional money manager and so much more Trend Following Mindset will teach you the mindset of one of the great trend followers Most important of all it will show you how to do as Tom does and enjoy the ride

Immerse yourself in heartwarming tales of love and emotion with is touching creation, Tender Moments: **Animal Weapons Evolution Douglas Emlen** . This emotionally charged ebook, available for download in a PDF format (*), is a celebration of love in all its forms. Download now and let the warmth of these stories envelop your heart.

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long as you call upon Me and ask of Me, I shall forgive you for what you have done, and I shall not mind. O ...