

Alain Pavé

# On the Origins and Dynamics of Biodiversity: the Role of Chance

 Springer

# On The Origins And Dynamics Of Biodiversity The Role Of Chance

**Alain Pavé**



## **On The Origins And Dynamics Of Biodiversity The Role Of Chance:**

**On the Origins and Dynamics of Biodiversity** Alain Pavé, 2010-07-05      On the Origins and Dynamics of Biodiversity: the Role of Chance Alain Pavé, 2010-07-03 Chance is necessary for living systems from the cell to organisms populations communities and ecosystems It is at the heart of their evolution and diversity Long considered contingent on other factors chance both produces random events in the environment and is the product of endogenous mechanisms molecular as well as cellular demographic and ecological This is how living things have been able to diversify themselves and survive on the planet Chance is not something to which Life has been subjected it is quite simply necessary for Life The endogenous mechanisms that bring it about are at once the products and the engines of evolution and they also produce biodiversity These internal mechanisms veritable biological roulettes are analogous to the mechanical devices that bring about physical chance They can be modeled by analogous mathematical equations This opens the way of a global modeling of biodiversity dynamics but we need also to gather quantitative data in both the laboratory setting as well as in the field By examining biodiversity at all scales and all levels this book seeks to evaluate the breadth of our knowledge on this topical subject to propose an integrated look at living things to assess the role of chance in its dynamics in the evolutionary processes and also to imagine practical consequences on the management of living systems      **Modeling of Living Systems** Alain Pavé, 2012-12-27 Modeling is now one of the most efficient methodologies in life sciences From practice to theory this book develops this approach illustrated by many examples general concepts and the current state of the art are also presented and discussed An historical and general introduction informs the reader how mathematics and formal tools are used to solve biological problems at all levels of the organization of life The core of this book explains how this is done based on practical examples coming for the most part from the author's personal experience In most cases data are included so that the reader can follow the reasoning process and even reproduce calculus The final chapter is devoted to essential concepts and current developments The main mathematical tools are presented in an appendix to the book and are written in an adapted language readable by scientists professionals or students with a basic knowledge of mathematics      *Coviability of Social and Ecological Systems: Reconnecting Mankind to the Biosphere in an Era of Global Change* Olivier Barrière, Mohamed Behnassi, Gilbert David, Vincent Douzal, Mireille Fargette, Thérèse Libourel, Maud Loireau, Laurence Pascal, Catherine Prost, Voyner Ravana-Cañete, Frédérique Seyler, Serge Morand, 2019-03-12 This book considers the principle of sustainable development which is currently facing a growing environmental crisis A new mode of thinking and positioning the ecological imperative is the major input of this volume The prism of co viability is not the economics of political agencies that carry the ideology of the dominant conventional economic schools but rather an opening of innovation perspectives through science This volume through its four parts more than 40 chapters and a hundred authors gives birth to a paradigm which crystallizes within a concept that will support in overcoming the ecological emergency deadlock      *Cosmic Evolution* Eric J.

Chaisson, Eric Chaisson, 2002-10-15 Chaisson addresses some of the most basic issues we can contemplate the origin of matter and the origin of life and the ways matter life and radiation interact and change with time He designs for us an expansive yet intricate model depicting the origin and evolution of all material structures Biodiversity : Structure and Function - Volume I Wilhelm Barthlott, K. Eduard Linsenmair, Stefan Porembski, 2009-08-19 Biodiversity Structure and Function is a component of Encyclopedia of Environmental and Ecological Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Biodiversity Structure and Function discusses matters of great relevance to our world such as Characterization of Biodiversity Biodiversity and Ecosystem Functioning Spatial and Temporal Dimensions of Biodiversity Dynamics Evolutionary and Genetic Aspects of Biodiversity Biodiversity Monitoring Assessment Data Management and Indicators The Value of Biodiversity Halting Biodiversity Loss Fundamentals and Latest Trends of Conservation Science and Action Application of Ecological Knowledge to Habitat Restoration These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs **The Evolutionary Tapestry: Exploring the Interconnected Web of Life's Transformation** Pasquale De Marco, 2025-04-15 Embark on an extraordinary journey through the tapestry of evolution where life's grand transformation unfolds before your eyes The Evolutionary Tapestry Exploring the Interconnected Web of Life's Transformation unveils the intricate mechanisms that govern the diversity of life on Earth delving into the forces that have shaped the living world from its humble origins to the astonishing complexity we witness today Within these pages you'll discover the profound implications of evolution extending far beyond the realm of biology Explore the evolutionary roots of human behavior unraveling the biological underpinnings of our thoughts emotions and social interactions Contemplate the existential questions that arise from our evolutionary heritage pondering our purpose in the universe and the meaning of our existence Through the lens of evolution we gain a deeper understanding of ourselves our place in the cosmos and the nature of consciousness This comprehensive exploration of evolution will captivate your mind and ignite your curiosity leaving you with a newfound appreciation for the interconnectedness of all life Join the ranks of renowned evolutionary thinkers as you trace the evolution of our understanding of this fundamental force that governs the living world From Darwin to Dawkins follow the intellectual journey that has shaped our comprehension of evolution uncovering the mysteries that still shroud this awe inspiring process With its engaging narrative and accessible explanations The Evolutionary Tapestry Exploring the Interconnected Web of Life's Transformation is the perfect guide for anyone seeking to unravel the secrets of life's grand transformation Prepare to be amazed by the intricate beauty of evolution and the profound implications it holds for our understanding of the universe and our place within it If you like this book write a review on google books **Insect Conservation** Michael J Samways, 2019-12-02 Insects do not live in isolation They

interact with the abiotic environment and are major components of the terrestrial and freshwater biotic milieus They are crucial to so many ecosystem processes and are the warp and weft of all terrestrial and freshwater ecosystems that are not permanently frozen This means that insect conservation is a two way process insects as the subjects of conservation while also they are useful tools for conserving the environment This book overviews strategic ways forward for insect conservation It is a general view of what has worked and what has not for the maintenance of insect diversity across the world as well as what might be the right approaches for the future *Hierarchy in Natural and Social Sciences* Denise Pumain,2006-02-09

Hierarchy is a form of organisation of complex systems that rely on or produce a strong differentiation in capacity power and size between the parts of the system It is frequently observed within the natural living world as well as in social institutions According to the authors hierarchy results from random processes follows an intentional design or is the result of the organisation which ensures an optimal circulation of energy for information This book reviews ancient and modern representations and explanations of hierarchies and compares their relevance in a variety of fields such as language societies cities and living species It throws light on concepts and models such as scaling laws fractals and self organisation that are fundamental in the dynamics and morphology of complex systems At a time when networks are celebrated for their efficiency flexibility and better social acceptance much can be learned about the persistent universality and adaptability of hierarchies and from the analogies and differences between biological and social organisation and processes This book addresses a wide audience of biologists and social scientists as well as managers and executives in a variety of institutions **Synthetic**

**Biology** Joachim Boldt,2015-11-26 Assessing synthetic biology from a societal and ethical perspective is not only a matter of determining possible harms and benefits of synthetic biology applications Synthetic biology also incorporates a specific technoscientific understanding of its research agenda and its research objects that has philosophical and ethical implications This edited volume sets out to explore and evaluate these synthetic biology worldviews and it proposes appropriate governance measures In addition legal challenges are discussed Biodiversity Erosion Christian Lévêque,2022-08-19

The erosion of biodiversity is currently highly publicized Militant movements accuse humans of destroying nature and being responsible for a sixth mass extinction However this anxiety provoking message is sometimes based on misconceptions false or partisan ideas and media relays that favor and amplify alarmist information If the situation of certain populations is worrying it is not a general phenomenon because others are expanding Rather than holding a globalizing discourse it is necessary to recontextualize and relativize the debate to better define the necessary actions Biodiversity Erosion analyzes numerous scientific publications as well as alarming discussions emphasizing the multiple biases present in the way information is presented This book questions the relevance of the notion of species and the desire to compile an inventory of all living things It argues for a less Manichean approach to our relationship with nature **The causes and consequences**

**of microbial community structure** Diana Reid Nemergut,Ashley Shade,Cyrille Violle,2015-01-22 The causes and

consequences of differences in microbial community structure defined here as the relative proportions of rare and abundant organisms within a community are poorly understood Articles in The Causes and Consequences of Microbial Community Structure use empirical or modeling approaches as well as literature reviews to enrich our mechanistic understanding of the controls over the relationship between community structure and ecosystem processes Specifically authors address the role of trait distributions and tradeoffs species species interactions evolutionary dynamics community assembly processes and physical controls in affecting who s there and what they are doing

**The New Natural History of Madagascar** Steven M. Goodman, 2022-11-15 A marvelously illustrated reference to the natural wonders of one of the most spectacular places on earth Separated from Africa s mainland for tens of millions of years Madagascar has evolved a breathtaking wealth of biodiversity becoming home to thousands of species found nowhere else on the planet The New Natural History of Madagascar provides the most comprehensive up to date synthesis available of this island nation s priceless biological treasures Now fully revised and expanded this beautifully illustrated compendium features contributions by more than 600 globally renowned experts who cover the history of scientific exploration in Madagascar as well as the island s geology and soils climate forest ecology human ecology marine and coastal ecosystems plants invertebrates fishes amphibians reptiles birds and mammals This invaluable two volume reference also includes detailed discussions of conservation efforts in Madagascar that showcase several successful protected area programs that can serve as models for threatened ecosystems throughout the world Provides the most comprehensive overview of Madagascar s rich natural history Coedited by 18 different specialists Features hundreds of new contributions by world class experts Includes hundreds of new illustrations Covers a broad array of topics from geology and climate to animals plants and marine life Sheds light on newly discovered species and draws on the latest science An essential resource for anyone interested in Madagascar or tropical ecosystems in general from biologists and conservationists to ecotourists and armchair naturalists

Nematology Z. X. Chen, S. Y. Chen, Donald Ward Dickson, 2004 This book summarizes the advances in nematology that have been made during the 20th century and provides perspectives for the development of nematology in the next century Chapters comprise plant diseases caused by nematodes virus vectors physiological interactions between nematodes and their host plants taxonomy of insect parasitic nematodes resistance to plant parasitic nematodes crop rotation and other cultural practices as control strategies use of antagonistic plants and natural products biological control of nematodes by fungal antagonists biological control of nematodes with bacterial antagonists biological control of insects and other invertebrates cost benefits of nematode management through regulatory programmes past and current uses of nematicides and irradiation effects of plant parasitic nematodes

The Oxford Handbook of Historical Ecology and Applied Archaeology Christian Isendahl, Daryl Stump, 2019-01-10 The Oxford Handbook of Historical Ecology and Applied Archaeology presents theoretical discussions methodological outlines and case studies describing the field of overlap between historical ecology and the emerging sub

discipline of applied archaeology to highlight how modern environments and landscapes have been shaped by humans. Historical ecology is based on the recognition that humans are not only capable of modifying their environments but that all environments on earth have already been directly or indirectly modified. This includes anthropogenic climate change, widespread deforestations and species extinctions but also very local alterations the effects of which may last a few years or may have legacies lasting centuries or more. With contributions from anthropologists, archaeologists, human geographers and historians, this volume focuses not just on defining human impacts in the past but on the ways that understanding these changes can help inform contemporary practices and development policies. Some chapters present examples of how ancient or current societies have modified their environments in sustainable ways while others highlight practices that had unintended long term consequences. The possibilities of learning from these practices are discussed as is the potential of using the long history of human resource exploitation as a method for building or testing models of future change. The volume offers overviews for students, researchers and professionals with an interest in conservation or development projects who want to understand what practical insights can be drawn from history and who seek to apply their work to contemporary issues.

Coastal-Marine Conservation G. Carleton Ray, Jerry McCormick-Ray, 2009-04-01 Coastal Marine Conservation Science and Policy introduces students and managers to complex conservation and management issues facing coastal nations of the world, their citizens and international and non governmental organizations. It aims to reduce complexity and inspire a greater consensus for more effective conservation action. Presents the coastal realm as a heterogeneous diverse ecosystem of exceptional high biological diversity and productivity and where conservation challenges are most difficult and urgent. Examines the critical issues facing coastal marine conservation and the mechanisms for dealing with them. Reviews the basic science required for addressing conservation issues by presenting the coastal realm as a land sea ecosystem of global significance and by reviewing the natural history features of coastal marine organisms. Presents three ecologically and latitudinally distinct real world case studies to create a context for understanding of regional systems, their cultures and their conservation: the polar Bering Sea, the temperate Chesapeake Bay and the tropical Bahamas. Makes apparent the ecological stresses on the coastal realm: increasing rates of ecosystem change, loss of ecosystem health and fragmented governance. Synthesizes the major challenges for conservation and suggests future policy and management strategies including ecosystem management and needs for achieving sustainability and addressing the environmental debt. This book is intended for undergraduates and graduates taking courses in coastal and marine conservation and management as well as those actively engaged in coastal marine conservation activities and gives the reader a clear steer to future management approaches. References additional to those in the book are available at [http://www.blackwellpublishing.com/ray\\_references.pdf](http://www.blackwellpublishing.com/ray_references.pdf). The artwork is available to download at <http://www.blackwellpublishing.com/ray>.

**Biodiversity** Christian Lévêque, Jean-Claude Mounolou, 2007-12-10 The title provides an overview of the current knowledge about the diversity of the living world and the

various problems associated with its conservation and sustainable use Covering both the fundamentals of the subject along with the latest research Biodiversity presents key conservation issues within a framework of global case studies Starting with a summary of the concept of biodiversity the text then explores such subjects as species richness ecological systems the consequences of human activities diversity and human health genetic resources biotechnology and conservation Comprehensive introduction to key issues surrounding the study of biodiversity Extensive bibliography and references to numerous relevant websites Introduces current research in the field within a framework of useful case studies     The Princeton Guide to Ecology Simon A. Levin, Stephen R. Carpenter, H. Charles J. Godfray, Ann P. Kinzig, Michel Loreau, Jonathan B. Losos, Brian Walker, David S. Wilcove, 2012-09-30 The Princeton Guide to Ecology is a concise authoritative one volume reference to the field s major subjects and key concepts Edited by eminent ecologist Simon Levin with contributions from an international team of leading ecologists the book contains more than ninety clear accurate and up to date articles on the most important topics within seven major areas autecology population ecology communities and ecosystems landscapes and the biosphere conservation biology ecosystem services and biosphere management Complete with more than 200 illustrations including sixteen pages in color a glossary of key terms a chronology of milestones in the field suggestions for further reading on each topic and an index this is an essential volume for undergraduate and graduate students research ecologists scientists in related fields policymakers and anyone else with a serious interest in ecology Explains key topics in one concise and authoritative volume Features more than ninety articles written by an international team of leading ecologists Contains more than 200 illustrations including sixteen pages in color Includes glossary chronology suggestions for further reading and index Covers autecology population ecology communities and ecosystems landscapes and the biosphere conservation biology ecosystem services and biosphere management     COMPLEX Nicklas George Pisias, Margaret L. Delaney, 1999     **Confronting the Coffee Crisis** Christopher M. Bacon, 2008 Explores small scale farming the political economy of the global coffee industry initiatives that claim to promote more sustainable rural development in coffee producing communities



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