

# HISTORICAL DYNAMICS

Why States Rise and Fall



PETER TURCHIN

PRINCETON STUDIES IN COMPLEXITY

# Historical Dynamics Why States Rise And Fall Princeton Studies In Complexity

**Peter Turchin**



## **Historical Dynamics Why States Rise And Fall Princeton Studies In Complexity:**

**Historical Dynamics** Peter Turchin, 2003-10-19 Statement of the problem Geopolitics Collective solidarity The metaethnic frontier theory An empirical test of the metaethnic frontier theory Ethnokinetics The demographic structural theory Secular cycles in population numbers Case studies Mathematical appendix Data summaries for the test of the metaethnic frontier theory *Historical Dynamics* Peter Turchin, 2018-05-08 Many historical processes are dynamic Populations grow and decline Empires expand and collapse Religions spread and wither Natural scientists have made great strides in understanding dynamical processes in the physical and biological worlds using a synthetic approach that combines mathematical modeling with statistical analyses Taking up the problem of territorial dynamics why some polities at certain times expand and at other times contract this book shows that a similar research program can advance our understanding of dynamical processes in history Peter Turchin develops hypotheses from a wide range of social political economic and demographic factors geopolitics factors affecting collective solidarity dynamics of ethnic assimilation religious conversion and the interaction between population dynamics and sociopolitical stability He then translates these into a spectrum of mathematical models investigates the dynamics predicted by the models and contrasts model predictions with empirical patterns Turchin's highly instructive empirical tests demonstrate that certain models predict empirical patterns with a very high degree of accuracy For instance one model accounts for the recurrent waves of state breakdown in medieval and early modern Europe And historical data confirm that ethno nationalist solidarity produces an aggressively expansive state under certain conditions such as in locations where imperial frontiers coincide with religious divides The strength of Turchin's results suggests that the synthetic approach he advocates can significantly improve our understanding of historical dynamics

Historians Without Borders Lawrence Abrams, Kaleb Knoblauch, 2019-04-11 This text explores a variety of themes developed from successive years of the University of California Davis multidisciplinary graduate conference It draws out connections on a wide array of topics among the arts humanities and sciences in history for multidisciplinary study This text presents a rare forum for multidisciplinary connections researched and presented by junior specialists in their respective fields It enables both creativity and flexibility in drawing out connections that are frequently overlooked by more specialized senior scholars This book is a unique exercise in the promotion of junior scholarly achievement and multidisciplinary research An Economic Inquiry into the Nonlinear Behaviors of Nations Rongxing Guo, 2017-02-06 This book applies an economic approach to examine the driving forces behind the dynamic behaviors of developing nations Taking into account initial conditions and environmental and external factors often oversimplified by historians and anthropologists Guo finds that the rise and fall of civilizations and nations followed an anti Darwinian process physical weakness rather than strength induced humans to adapt Cultures facing unfavorable physical and environmental conditions developed complex societies to overcome these challenges while favorable conditions did not incentivize major economic and cultural change Over centuries

of economic growth and development nations and civilizations adaptive behaviors have followed a cyclical path at both the country level and in an international context This interdisciplinary book incorporates elements of history anthropology and development into an astute economic analysis that changes the way we think about the origins and evolutions of civilizations

*Complexity and the Human Experience* Paul A. Youngman, Mirsad Hadzikadic, 2014-05-22 Questions of values ontologies ethics aesthetics discourse origins language literature and meaning do not lend themselves readily or traditionally to equations probabilities and models However with the increased adoption of natural science tools in economics anthropology and political science to name only a few social scientific fields

*Network Analysis and Ethnographic Problems* Douglas White, Ulla Johansen, 2005-01-01 Using network visualization and the study of the dynamics of marriage choices *Network Analysis and Ethnographic Problems* expands the theory of social practice to show how changes in the structure of a society's kinship network affect the development of social cohesion over time Using the genealogical networks of a Turkish nomad clan authors Douglas White and Ulla Johansen explore how changes in network cohesion are revealed to be indicative of key processes of social change This approach alters in fundamental ways the anthropological concepts of social structure organizational dynamics social cohesion marriage strategies as well as the study of community politics within the dynamics of ongoing personal interaction

**Army and Society in Ptolemaic Egypt** Christelle Fischer-Bovet, 2014-04-10 This is the only substantial and up to date reference work on the Ptolemaic army Employing Greek and Egyptian papyri and inscriptions and building on approaches developed in state formation theory it offers a coherent account of how the changing structures of the army in Egypt after Alexander's conquest led to the development of an ethnically more integrated society A new tripartite division of Ptolemaic history challenges the idea of gradual decline and emphasizes the reshaping of military structures that took place between c 220 and c 160 BC in response to changes in the nature of warfare mobilization and demobilization and financial constraints An investigation of the socio economic role played by soldiers permits a reassessment of the cleruchic system and shows how soldiers associations generated interethnic group solidarity By integrating Egyptian evidence Christelle Fischer Bovet also demonstrates that the connection between the army and local temples offered new ways for Greeks and Egyptians to interact

*The Dynamics of Risk* Louise K. Comfort, 2019-06-25 Earthquakes are a huge global threat In thirty six countries severe seismic risks threaten populations and their increasingly interdependent systems of transportation communication energy and finance In this important book Louise Comfort provides an unprecedented examination of how twelve communities in nine countries responded to destructive earthquakes between 1999 and 2015 And many of the book's lessons can also be applied to other large scale risks *The Dynamics of Risk* sets the global problem of seismic risk in the framework of complex adaptive systems to explore how the consequences of such events ripple across jurisdictions communities and organizations in complex societies triggering unexpected alliances but also exposing social economic and legal gaps The book assesses how the networks of organizations involved in response and

recovery adapted and acted collectively after the twelve earthquakes it examines. It describes how advances in information technology enabled some communities to anticipate seismic risk better and to manage response and recovery operations more effectively, decreasing losses. Finally, the book shows why investing substantively in global information infrastructure would create shared awareness of seismic risk and make postdisaster relief more effective and less expensive. The result is a landmark study of how to improve the way we prepare for and respond to earthquakes and other disasters in our ever more complex world.

**Social Complexity and Complex Systems in Archaeology** Dries Daems, 2021-02-22. *Social Complexity and Complex Systems in Archaeology* turns to complex systems thinking in search of a suitable framework to explore social complexity in Archaeology. Social complexity in archaeology is commonly related to properties of complex societies such as states as opposed to so-called simple societies such as tribes or chiefdoms. These conceptualisations of complexity are ultimately rooted in Eurocentric perspectives with problematic implications for the field of archaeology. This book provides an in-depth conceptualisation of social complexity as the core concept in archaeological and interdisciplinary studies of the past, integrating approaches from complex systems thinking, archaeological theory, social practice theory, and sustainability and resilience science. The book covers a long-term perspective of social change and stability, tracing the full cycle of complexity trajectories from emergence and development to collapse, regeneration, and transformation of communities and societies. It offers a broad vision on social complexity as a core concept for the present and future development of archaeology. This book is intended to be a valuable resource for students and scholars in the field of archaeology and related disciplines such as history, anthropology, sociology, as well as the natural sciences studying human-environment interactions in the past.

**Human-Earth System Dynamics** Rongxing Guo, 2018-05-16. This book explores the factors and mechanisms that may have influenced the dynamic behaviors of earliest civilizations, focusing on both environmental/geographic factors on which traditional historic analyses are based and human behavioral factors on which anthropological analyses are usually based. It also resurrects a number of common ancestral terms to help readers understand the complicated process of human and cultural evolution around the globe. Specifically, in almost all indigenous languages, the words *wa* and any variants of it were originally associated with the sound of crying of and certainly were selected as the common ancestral word with the meanings of house, home, homeland, motherland, and so on by early humans living in different parts of the world. This book provides many neglected but still crucial environmental and biological clues about the rise and fall of civilizations, ones that have largely resulted from mankind's long-lasting Win/Stay/Lose/Shift games throughout the world. The narratives and findings presented in this book are unexpected but reasonable and are what every student of anthropology or history needs to know and doesn't get in the usual text. Professor Guo explores the dynamics of civilizations from the beginnings to our perplexingly complex world. There are lots of thought-provoking ideas here on the rise and decline of civilizations and nations. Anyone wishing to understand global developments should give this book serious consideration. John Komlos, University of

Munich Germany and Duke University USA It is interesting to see a Chinese perspective on the questions of deep history that have engaged Jared Diamond Yuval Harari and David Christian Guo argues that understanding cyclical threats has been the key to human progress which is driven by the dialectic of material privation and human ingenuity Peter Rutland Wesleyan University USA

**Abiding Influence** Giuseppe Paparella, 2025-11-04 How do nationalist beliefs shape and influence American foreign policy What are the contemporary implications of America's long standing engagement in the Asia Pacific This book unearths the varied processes underpinning the relationship between nationalism and the formulation of foreign policy highlighting the central function of leaders nationalist beliefs in the history of America's international behavior By developing a novel theoretical framework and drawing on original archival research and methods of process tracing Paparella shows how presidents nationalist beliefs can influence distinct foreign policy attitudes that have underpinned important foreign policy decisions and turning points in the Asia Pacific By putting nationalism back on center stage Paparella makes a strong case for looking at this history as a complex succession of interactions between states but also between leaders that are highly contingent and shaped by the nationalist views of the leading US decision makers over time This thoughtful study provides scholars and students with an interpretative key to understand the multifaceted role of the United States in the Asia Pacific as well as policy recommendations to overcome the security and the credibility challenges posed by the rise of China in the region today

*Secret Chambers* Martin Brasier, 2012-05-31 In the follow up to Darwin's Lost World Martin Brasier introduces the quest for the missing history of life and the cell Through a series of journeys it emerges that the modern plant cell is one of the most deeply puzzling and unlikely steps in the whole history of life Decoding this puzzle is a great adventure that has mainly taken place over the last half century Brasier puts the big questions into context through lively descriptions of his explorations around the world from the Caribbean Sea and the Egyptian pyramids to the shores of the great lakes in Canada and to the reefs and deserts of Australia Covering the period from 1 to 2 billion years ago a period he once dubbed the boring billion he demonstrates how it in fact involved great evolutionary potential with the formation of the complex eukaryotic cell Without this cell there would be nothing on Earth today except bacteria and the formation of this cell was a fundamental turning point in the history of life on Earth Weaving together several threads Brasier emphasizes the importance of single celled forms to marine ecosystems symbiosis and coral reefs and the architecture and beauty of single celled Foraminifera and what they tell us about evolution From a master storyteller comes a vivid description of the earliest biological forms and a set of fascinating tales of travels and research

**Pioneers of Globalization** Jorge Nascimento Rodrigues, Tessaleno C. Devezas, 2007-12-01 A 270 page time travel along the routes that led to the birth of Globalization contributing robust evidence regarding the pioneering role of the Portuguese in this important chapter in the evolution of the world system The Portuguese alone originated the maritime routes on a global scale and this feat will remain recorded in human history for the millennia to come

INNOVATION STRATEGY IN MODERN

**HISTORY** The world system's telltale signature unveils the emergence of the first globalizing power Five main theses are defended in this book History is not a mere accumulation of past facts the fruit of chance and uncertainty and the Science of History is not a simplistic narrative of past stories Globalization is an evolutionary and irreversible process initially conceived in China around the 10th century and born with the Portuguese Discoveries movement in the 15th and 16th centuries The Portuguese were pioneers in the process that led to the transition to a true global system of cultural and commercial exchange The application of systemic methodology to the analysis of History allows for the construction of viable future scenarios There is an inheritance from the Portuguese generations active during the apex period between the 15th and 16th centuries the Discoveries Matrix as well as a portfolio of acquired knowledge regarding this country's capacity for resilience and its historical relationship to some of the emerging 21st century powers

### **The Structure and Dynamics of Networks**

Mark Newman, Albert-László Barabási, Duncan J. Watts, 2011-10-23 From the Internet to networks of friendship disease transmission and even terrorism the concept and the reality of networks has come to pervade modern society But what exactly is a network What different types of networks are there Why are they interesting and what can they tell us In recent years scientists from a range of fields including mathematics physics computer science sociology and biology have been pursuing these questions and building a new science of networks This book brings together for the first time a set of seminal articles representing research from across these disciplines It is an ideal sourcebook for the key research in this fast growing field The book is organized into four sections each preceded by an editor's introduction summarizing its contents and general theme The first section sets the stage by discussing some of the historical antecedents of contemporary research in the area From there the book moves to the empirical side of the science of networks before turning to the foundational modeling ideas that have been the focus of much subsequent activity The book closes by taking the reader to the cutting edge of network science the relationship between network structure and system dynamics From network robustness to the spread of disease this section offers a potpourri of topics on this rapidly expanding frontier of the new science

### **Critical Transitions in**

**Nature and Society** Marten Scheffer, 2020-11-10 How do we explain the remarkably abrupt changes that sometimes occur in nature and society and can we predict why and when they happen This book offers a comprehensive introduction to critical transitions in complex systems the radical changes that happen at tipping points when thresholds are passed Marten Scheffer accessibly describes the dynamical systems theory behind critical transitions covering catastrophe theory bifurcations chaos and more He gives examples of critical transitions in lakes oceans terrestrial ecosystems climate evolution and human societies And he demonstrates how to deal with these transitions offering practical guidance on how to predict tipping points how to prevent bad transitions and how to promote critical transitions that work for us and not against us Scheffer shows the time is ripe for understanding and managing critical transitions in the vast and complex systems in which we live This book can also serve as a textbook and includes a detailed appendix with equations Provides an accessible

introduction to dynamical systems theory Covers critical transitions in lakes oceans terrestrial ecosystems the climate evolution and human societies Explains how to predict tipping points Offers strategies for preventing bad transitions and triggering good ones Features an appendix with equations      *Complex Adaptive Systems* John H. Miller, Scott E.

Page, 2009-11-28 This book provides the first clear comprehensive and accessible account of complex adaptive social systems by two of the field's leading authorities Such systems whether political parties stock markets or ant colonies present some of the most intriguing theoretical and practical challenges confronting the social sciences Engagingly written and balancing technical detail with intuitive explanations *Complex Adaptive Systems* focuses on the key tools and ideas that have emerged in the field since the mid 1990s as well as the techniques needed to investigate such systems It provides a detailed introduction to concepts such as emergence self organized criticality automata networks diversity adaptation and feedback It also demonstrates how complex adaptive systems can be explored using methods ranging from mathematics to computational models of adaptive agents John Miller and Scott Page show how to combine ideas from economics political science biology physics and computer science to illuminate topics in organization adaptation decentralization and robustness They also demonstrate how the usual extremes used in modeling can be fruitfully transcended      **Generative Social**

**Science** Joshua M. Epstein, 2012-01-02 Agent based computational modeling is changing the face of social science In *Generative Social Science* Joshua Epstein argues that this powerful novel technique permits the social sciences to meet a fundamentally new standard of explanation in which one grows the phenomenon of interest in an artificial society of interacting agents heterogeneous boundedly rational actors represented as mathematical or software objects After elaborating this notion of generative explanation in a pair of overarching foundational chapters Epstein illustrates it with examples chosen from such far flung fields as archaeology civil conflict the evolution of norms epidemiology retirement economics spatial games and organizational adaptation In elegant chapter preludes he explains how these widely diverse modeling studies support his sweeping case for generative explanation This book represents a powerful consolidation of Epstein's interdisciplinary research activities in the decade since the publication of his and Robert Axtell's landmark volume *Growing Artificial Societies* Beautifully illustrated *Generative Social Science* includes a CD that contains animated movies of core model runs and programs allowing users to easily change assumptions and explore models making it an invaluable text for courses in modeling at all levels      **Complexity Perspectives in Innovation and Social Change** David Lane, Denise

Pumain, Sander Ernst van der Leeuw, Geoffrey West, 2009-02-13 Innovation is nowadays a question of life and death for many of the economies of the western world Yet due to our generally reductionist scientific paradigm invention and innovation are rarely studied scientifically Most work prefers to study its context and its consequences As a result we are as a society lacking the scientific tools to understand improve or otherwise impact on the processes of invention and innovation This book delves deeply into that topic taking the position that the complex systems approach with its emphasis on emergence is better



suited than our traditional approach to the phenomenon In a collection of very coherent papers which are the result of an EU funded four year international research team s effort it addresses various aspect of the topic from different disciplinary angles One of the main emphases is the need in the social sciences to move away from neo darwinist population thinking to organization thinking if we want to understand social evolution Another main emphasis is on developing a generative approach to invention and innovation looking in detail at the contexts within which invention and innovation occur and how these contexts impact on the chances for success or failure Throughout the book is infused with interesting new insights but also presents several well elaborated case studies that connect the ideas with a substantive body of real world information

*Robustness and Evolvability in Living Systems* Andreas Wagner,2013-10-24 All living things are remarkably complex yet their DNA is unstable undergoing countless random mutations over generations Despite this instability most animals do not grow two heads or die plants continue to thrive and bacteria continue to divide Robustness and Evolvability in Living Systems tackles this perplexing paradox The book explores why genetic changes do not cause organisms to fail catastrophically and how evolution shapes organisms robustness Andreas Wagner looks at this problem from the ground up starting with the alphabet of DNA the genetic code RNA and protein molecules moving on to genetic networks and embryonic development and working his way up to whole organisms He then develops an evolutionary explanation for robustness Wagner shows how evolution by natural selection preferentially finds and favors robust solutions to the problems organisms face in surviving and reproducing Such robustness he argues also enhances the potential for future evolutionary innovation Wagner also argues that robustness has less to do with organisms having plenty of spare parts the redundancy theory that has been popular and more to do with the reality that mutations can change organisms in ways that do not substantively affect their fitness Unparalleled in its field this book offers the most detailed analysis available of all facets of robustness within organisms It will appeal not only to biologists but also to engineers interested in the design of robust systems and to social scientists concerned with robustness in human communities and populations Islands of Order J. Stephen Lansing,Murray P.

Cox,2019-10-08 Two pioneering anthropologists reveal how complexity science can help us better understand how societies change over time Over the past two decades anthropologist J Stephen Lansing and geneticist Murray Cox have explored dozens of villages on the islands of the Malay Archipelago combining ethnographic research with research into genetic and linguistic markers to shed light on how these societies change over time Islands of Order draws on their pioneering fieldwork to show how the science of complexity can be used to better understand unstable dynamics in culture language cooperation and the emergence of hierarchies Complexity science has opened exciting new vistas in physics and biology but poses challenges for social scientists What triggers fundamental discontinuous social change And what brings stable patterns islands of order into existence Lansing and Cox begin with an incisive and accessible introduction to models of change from simple random drift to coupled interactions phase transitions co phylogenies and adaptive landscapes Then they take readers

on a series of journeys to the islands of the Indo Pacific to demonstrate how social scientists can harness these powerful tools to discover out of equilibrium social dynamics Lansing and Cox address empirical questions surrounding the colonization of the Pacific the relationship of language to culture the emergence and disappearance of male and female hierarchies and more Unlocking new possibilities for the social sciences Islands of Order is accompanied by an interactive companion website that enables readers to explore the models described in the book

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