

Lotka Alfred J

Analytical Theory of Biological Populations Elements of Physical Biology, by Alfred J. Lotka
Contribution to the General Kinetics of Material Transformations /by Alfred J. Lotka Modeling
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in the 50 years that have passed since alfred lotka s death in 1949 his position as the father of mathematical demography has been secure with his first demographic papers in 1907 and 1911 the latter co authored with f r sharpe he laid the foundations for stable population theory and over the next decades both largely completed it and found convenient mathematical approximations that gave it practical applica tions since his time the field has moved in several directions he did not foresee but in the main it is still his despite lotka s stature however the reader still needs to hunt through the old journals to locate his principal works as yet no exten sive collections of his papers are in print and for his part he never as sembled his contributions into a single volume in english he did so in french in the two part theorie analytique des associations biologiques 1934 1939 drawing on his elements of physical biology 1925 and most of his mathematical papers lotka offered french readers insights into his biological thought and a concise and mathematically accessible summary of what he called recent contributions in demographic analy sis we would be accurate in also calling it lotka s contributions in demographic analysis

the first history of population ecology traces two generations of science and scientists from the opening of the twentieth century through 1970 kingsland chronicles the careers of key figures and the field s theoretical empirical and institutional development with special attention to tensions between the descriptive studies of field biologists and later mathematical models this second edition includes a new afterword that brings the book up to date with special attention to the rise of the new natural history and debates about ecology s future as a large scale scientific enterprise

foreword the modern developments in mathematical biology took place roughly between 1920 and 1940 a period now referred to as the golden age of theoretical biology the eminent italian mathematician vito volterra played a decisive and widely acknowledged role in these developments volterra s interest in the application of mathematics to the non physical sciences and to biology and economics in particular dates back to the turn of the century and was expressed in his inaugural address at the university of rome for the academic year 1900 01 volterra 1901 nevertheless it was only in the mid twenties that volterra entered the field in person at the instigation of his son in law umberto d ancona who had confronted him with the problem of competition among animal species asking him whether a mathematical treatment was possible from that time on until his death in 1940 volterra produced a huge output of publications on the subject volterra s specific project was to transfer the model and the concepts of classical mechanics to biology constructing a sort of rational mechanics and an analytic mechanics of biological associations the new subject was thus to be equipped with a solid experimental or at least empirical basis also in this case following the tried and tested example of mathematical physics although very few specific features of this reductionist programme have actually survived volterra s contribution was decisive as is now universally acknowledged in en couraging fresh studies in the field of mathematical biology

this four volume collection of over 140 original chapters covers virtually everything of interest to demographers sociologists and others over 100 authors present population subjects in ways that provoke thinking and lead to the creation of new perspectives not just facts and equations to be memorized the articles follow a theory methods applications approach and so offer a kind of one stop shop that is well suited for students and professors who need non technical summaries such as political scientists public affairs specialists and others unlike shorter handbooks demography analysis and synthesis offers a long overdue thorough treatment of the field choosing the analytical method that fits the data and the situation requires insights that the authors and editors of demography

analysis and synthesis have explored and developed this extended examination of demographic tools not only seeks to explain the analytical tools themselves but also the relationships between general population dynamics and their natural economic social political and cultural environments limiting themselves to human populations only the authors and editors cover subjects that range from the core building blocks of population change fertility mortality and migration to the consequences of demographic changes in the biological and health fields population theories and doctrines observation systems and the teaching of demography the international perspectives brought to these subjects is vital for those who want an unbiased rounded overview of these complex multifaceted subjects topics to be covered population dynamics and the relationship between population growth and structure the determinants of fertility the determinants of mortality the determinants of migration historical and geographical determinants of population the effects of population on health economics culture and the environment population policies data collection methods and teaching about population studies all chapters share a common format each chapter features several cross references to other chapters tables charts and other non text features are widespread each chapter contains at least 30 bibliographic citations

providing a new conceptual scaffold for further research in biology and cognition this book introduces the new field of cognitive biology a systems biology approach showing that further progress in this field will depend on a deep recognition of developmental processes as well as on the consideration of the developed organism as an agent able to modify and control its surrounding environment the role of cognition the means through which the organism is able to cope with its environment cannot be underestimated in particular it is shown that this activity is grounded on a theory of information based on bayesian probabilities the organism is considered as a cybernetic system able to integrate a processor as a source of variety the genetic system a regulator of its own homeostasis the metabolic system and a selecting system separating the self from the non self the membrane in unicellular

organisms any organism is a complex system that can survive only if it is able to maintain its internal order against the spontaneous tendency towards disruption therefore it is forced to monitor and control its environment and so to establish feedback circuits resulting in co adaptation cognitive and biological processes are shown to be inseparable

this book is about the mechanisms of wealth creation or what we like to think of as evolutionary progress the massive circular flow of goods and services between producers and consumers is not a perpetual motion machine it has been dependent for the past 150 years on energy inputs from a finite storage of fossil fuels in this book you will learn about the three key requirements for wealth creation and how this process acts according to physical laws and usually after some part of the natural wealth of the planet has been exploited in an episode of creative destruction knowledge and natural capital particularly energy will interact to power the human wealth engine in the future as it has in the past will it sputter or continue along the path of evolutionary progress that we have come to expect can the new immaterial wealth of information and ideas which makes up the so called knowledge economy replace depleted natural wealth these questions have no simple answers but this masterful book will help you to understand the grand challenge of our time praise for energy complexity and wealth maximization people who run the modern world politicians economists and lawyers have a very poor grasp of how it really works because they do not understand the fundamentals of energy exergy and entropy those decision makers would greatly benefit from reading this book vaclav smil distinguished professor emeritus university of manitoba a grandiose design impressive worth reading and reflecting prof dr ernst ulrich von weizsäcker founder of wuppertal institute co president of the club of rome former member of the german bundestag co chair of the un s resource panel the book is a must read for concerned citizens and decision makers across the globe rk pachauri founder and executive vice chairman the energy and resources institute teri and ex chair international panel on climate change ipcc

this book examines the interrelations of population change developments in projection methodology and politics in the 1920s and 1930s together the contributions in the book represent an important scholarly and critical contribution to the history of d

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