

Free ebook Lotka alfred j (2023)

Analytical Theory of Biological Populations The Biology of Numbers Modeling Nature Populations, Projections, Politics Demography: Analysis and Synthesis, Four Volume Set Descartes and the Ontology of Everyday Life Cognitive Biology Applied Mathematical Demography Energy, Complexity and Wealth Maximization Mathematical Demography Models, Simulations, and Representations Founder of Modern Economics: Paul A. Samuelson How Our Days Became Numbered An Artificial History of Natural Intelligence Periodic, Small-amplitude Solutions to the Spatially Uniform Plasma Continuity Equations NASA Technical Note Encyclopedia of Library and Information Science Natural Images in Economic Thought The Struggle for the Long-Term in Transnational Science and Politics An Introduction to Ecological Economics Scarcity and Growth Reconsidered Information, Entropy, and Progress International Encyclopedia of Systems and Cybernetics The Biosphere and Noosphere Reader Encyclopedia of Environment and Society Encyclopedia of Library and Information Sciences The Empathic Civilization Die Mathematisierung des Lebens Dictionary of Energy Theoretical Ecology Numerical Analysis of Partial Differential Equations Using Maple and MATLAB Ansley J. Coale Selected Bibliography on Medical Economics Economics as Worldly Philosophy Post Keynesian and Ecological Economics Fertility and Reproduction Public Health Reports Population and Society Complex Evolutionary Dynamics in Urban-Regional and Ecologic-Economic Systems Modeling Complex Systems

Analytical Theory of Biological Populations 2013-06-29

in the 50 years that have passed since alfred latka 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 latka 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 latka 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 latka s contributions in demographic analysis

The Biology of Numbers 2013-03-07

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

Modeling Nature 1995-10-16

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

Populations, Projections, Politics 2003

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

Demography: Analysis and Synthesis, Four Volume Set 2006-01-03

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

Descartes and the Ontology of Everyday Life 2019-10

the seventeenth century was a period of extraordinary invention discovery and revolutions in scientific social and political orders it was a time of expansive automation biological discovery rapid advances in medical knowledge of animal trials and a questioning of the boundaries between species human and non human between social classes and of the assumed naturalness of political

inequality this book gives a tour through those objects ordinary and extraordinary which captivated the philosophical imagination of the single most important french philosopher of this period rene descartes deborah j brown and calvin g normore document descartes attempt to make sense of the complex composite objects of human and divine invention consistent with the fundamental tenets of his metaphysical system their central argument is that far from reducing all the categories of ordinary experience to the two basic categories of substance mind and body descartes philosophy recognises irreducible composites that resist reduction and require their own distinctive modes of explanation

Cognitive Biology 2011-07-14

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

Applied Mathematical Demography 2013-03-09

what follows is a new edition of the second in a series of three books providing an account of the mathematical development of demography the first introduction to the mathematics of population addison wesley 1968 gave the mathematical background the second the original of the present volume was concerned with demography itself the third in the sequence mathematics through problems with john beekman springer verlag 1982 supplemented the first two with an ordered sequence of problems and answers readers interested in the mathematics may consult the earlier book republished with revisions by addison wesley in 1977 and still in print there is no overlap in subject matter between applied mathematical demography and the introduction to the mathematics of population three new chapters have been added dealing with matters that have come recently into the demographic limelight multi state calculations family demography and heterogeneity vii preface this book is concerned with commonsense questions about for instance the effect of a lowered death rate on the proportion of old people or the effect of abortions on the birth rate the answers that it reaches are not always commonsense and we will meet instances in which intuition has to be adjusted to accord with what the mathematics shows to be the case

Energy, Complexity and Wealth Maximization 2016-07-14

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 weizäcker 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

Mathematical Demography 2013-07-23

mathematical demography is the centerpiece of quantitative social science the founding works of this field from roman times to the late twentieth century are collected here in a new edition of a classic work by david r smith and nathan keyfitz commentaries by smith and keyfitz have been brought up to date and extended by kenneth wachter and hervé le bras giving a synoptic picture of the leading achievements in formal population studies like the original collection this new edition constitutes an indispensable source for students and scientists alike and illustrates the deep roots and continuing vitality of mathematical demography

Models, Simulations, and Representations 2013-03-01

although scientific models and simulations differ in numerous ways they are similar in so far as they are posing essentially philosophical problems about the nature of representation this collection is designed to bring together some of the best work on the nature of representation being done by both established senior philosophers of science and younger researchers most of the pieces while appealing to existing traditions of scientific representation explore new types of questions such as how understanding can be developed within computational science how the format of representations matters for their use be it for the purpose of research or education how the concepts of emergence and supervenience can be further analyzed by taking into account computational science or how the emphasis upon tractability a particularly important issue in

computational science sheds new light on the philosophical analysis of scientific reasoning

Founder of Modern Economics: Paul A. Samuelson 2017-04-05

paul samuelson was at the heart of a revolution in economics he was the foremost academic economist of the 20th century according to the new york times and the first american to win the nobel prize in economics his work transformed the field of economics and helped give it the theoretical and mathematic rigor that increased its influence in business and policy making in founder of modern economics roger e backhouse explores the central importance of samuelson s personality and social networks to understanding his intellectual development this is the first of two volumes covering samuelson s extended and productive life and career this volume surveys samuelson s early years growing up in the midwest to his experiences at the university of chicago and harvard university where leading scholars in economics and other disciplines stimulated and rewarded his curiosity his thinking was influenced by the natural sciences and he understood that a critical scientific approach increased insights into important social and economic questions he realized that these questions could not be answered through rhetorical debate but required rigor his eureka moment came he said when a good fairy whispered to me that math was a skeleton key to solve age old problems in economics backhouse traces samuelson s thinking from his early days to the publication of his groundbreaking book foundations of economic analysis and economics an introductory analysis which influenced generations of students his work set the stage for economics to become a more cohesive and coherent discipline based on mathematical techniques that provided surprising insights into many important topics from business cycles to wage and unemployment rates and from how competition influences trade to how tax rates affects tax collection founder of modern economics is a profound contribution to understanding how modern economics developed and the thinking of a revolutionary thinker

How Our Days Became Numbered 2015-05-18

long before the age of big data or the rise of today s self quantifiers american capitalism embraced risk and proceeded to number our days life insurers led the way developing numerical practices for measuring individuals and groups predicting their fates and intervening in their futures emanating from the gilded boardrooms of lower manhattan and making their way into drawing rooms and tenement apartments across the nation these practices soon came to change the futures they purported to divine how our days became numbered tells a story of corporate culture remaking american culture a story of intellectuals and professionals in and around insurance companies who reimagined americans lives through numbers and taught ordinary americans to do the same making individuals statistical did not happen easily legislative battles raged over the propriety of discriminating by race or of smoothing away the effects of capitalism s fluctuations on individuals meanwhile debates within companies set doctors against actuaries and agents resulting in elaborate secretive systems of surveillance and calculation dan bouk reveals how in a little over half a century insurers laid the groundwork for the much quantified risk infused world that we live in today to understand how the financial world shapes modern bodies how risk assessments can perpetuate inequalities of race or sex and how the quantification and claims of risk on each of us continue to grow we must take seriously the history of those who view our lives as a series of probabilities to be managed

An Artificial History of Natural Intelligence 2024-04-05

a new history of human intelligence that argues that humans know themselves by knowing their machines we imagine that we are both in control of and controlled by our bodies autonomous and yet automatic this entanglement according to david w bates emerged in the seventeenth century when humans first built and compared themselves with machines reading varied thinkers from descartes to kant to turing bates reveals how time and time again technological developments offered new ways to imagine how the body s automaticity worked alongside the mind s autonomy tracing these evolving lines of thought an artificial history of natural intelligence offers a new theorization of the human as a being that is dependent on technology and produces itself as an artificial automaton without a natural outside origin

Periodic, Small-amplitude Solutions to the Spatially Uniform Plasma Continuity Equations 1968

the encyclopedia of library and information science provides an outstanding resource in 33 published volumes with 2 helpful indexes this thorough reference set written by 1300 eminent international experts offers librarians information computer scientists bibliographers documentalists systems analysts and students convenient access to the techniques and tools of both library and information science impeccably researched cross referenced alphabetized by subject and generously illustrated the encyclopedia of library and information science integrates the essential theoretical and practical information accumulating in this rapidly growing field

NASA Technical Note 1968

this 1994 book was the first collection devoted to impact of natural sciences on content and form of economics in history

Encyclopedia of Library and Information Science 1987-02-26

this book reconsiders the power of the idea of the future bringing together perspectives from cultural history environmental history political history and the history of science it investigates how the future became a specific field of action in liberal democratic state socialist and post colonial regimes after the second world war it highlights the emergence of new forms of predictive scientific expertise in this period and shows how such forms of expertise interacted with political systems of the cold war world order as the future became the prism for dealing with post industrialisation technoscientific progress changing social values cold war tensions and an emerging third world a forgotten problem of cultural history the future re emerges in this volume as a fundamentally contested field in which forms of control and central forms of resistance met as different actors set out to colonise and control and others to

liberate the individual studies of this book show how the west european african romanian and czechoslovak long term was constructed through forms of expertise computer simulations and models and they reveal how such constructions both opened up new realities but also imposed limits on possible futures

Natural Images in Economic Thought 1994-07-29

ecological economics is a way of rethinking the relationship between humans and the environment and working out the implications of how we manage our lives and the planet an introduction to ecological economics offers a starting point for undergraduate and graduate students and environmental professionals interested in this transdisciplinary field beginning in section 1 with a description of some current problems in society and their underlying causes section 2 then takes a historical perspective to explain how world views regarding economics and ecology have evolved section 3 presents the fundamental principles of ecological economics and part 4 outlines and discusses a set of policies for creating a sustainable society as well as instruments that could be used to implement those policies a conclusions section summarizes the main points of the book and proposes prospects for the future let an introduction to ecological economics introduce you to important issues affecting our ecology our economy our world

The Struggle for the Long-Term in Transnational Science and Politics 2015-04-10

current views on resource availability are examined along with the original barnett morse thesis of resource supply originally published in 1979

An Introduction to Ecological Economics 1997-08-11

market those in economics especially thermodynamics statistical mechanics cybernetics information theory resource use and evolutionary economic behavior this book presents an innovative and challenging look at evolution on several scales from the earth and its geology and chemistry to living organisms to social and economic systems applying the principles of thermodynamics and the concepts of information gathering and self organization the author characterizes the direction of evolution in each case as an accumulation of distinguishability information a type of universal knowledge

Scarcity and Growth Reconsidered 2013-10-18

the reader is the first comprehensive history of the noosphere and biosphere drawing on classical influences modern parallels and insights into the future the reader traces the emergence of noosphere and biosphere concepts within the concept of environmental change reproducing material from seminal works both past and present key ideas and writings of prominent thinkers are presented including bergson vernadsky lovelock russell needham huxley medawar toynbee and boulding and extensive introductory pieces by the editors draw attention to common themes and competing ideas focussing on issues of origins theories parallels and potential the discussions place issues in a broad context compare and contrast central concepts with those of the gaia hypothesis sustainability and global change and examine the potential application of noospheric ideas to current debates about culture education and technology in such realms as the internet space exploration and the emergence of super consciousness literally the sphere of mind or intellect the noosphere is apart of the realm of the possible in human affairs where there is a conscious effort to tackle global issues the noosphere concept captures a number of key contemporary issues social evolution global ecology gaia deep ecology and global environmental change contributing to ongoing debates concerning the implications of emerging technologies

Information, Entropy, and Progress 1997-05-08

the encyclopedia of environment and society brings together multiplying issues concepts theories examples problems and policies with the goal of clearly explicating an emerging way of thinking about people and nature with more than 1 200 entries written by experts from incredibly diverse fields this innovative resource is a first step toward diving into the deep pool of emerging knowledge the five volumes of this encyclopedia represent more than a catalogue of terms rather they capture the spirit of the moment a fascinating time when global warming and genetic engineering represent only two of the most obvious examples of socio environmental issues

International Encyclopedia of Systems and Cybernetics 2011-12-07

the encyclopedia of library and information sciences comprising of seven volumes now in its fourth edition compiles the contributions of major researchers and practitioners and explores the cultural institutions of more than 30 countries this major reference presents over 550 entries extensively reviewed for accuracy in seven print volumes or online the new fourth edition which includes 55 new entries and 60 revised entries continues to reflect the growing convergence among the disciplines that influence information and the cultural record with coverage of the latest topics as well as classic articles of historical and theoretical importance

The Biosphere and Noosphere Reader 2012-10-02

global empathy in time to avoid the collapse of civilization and save the planet one of the most popular social thinkers of our time jeremy rifkin is the bestselling author of the european dream the hydrogen economy the end of work the biotech century and the age of access he is the president of the foundation on economic trends in washington d c

Encyclopedia of Environment and Society 2007-08-27

english summary to mathematize the world and thereby explain it in 1925 the natural scientist and actuary alfred james lotka completed his monograph elements of physical biology which interpreted all processes on planet earth energetically and formalised them the result was a mathematically

precise and at the same time holistic world view of interacting dynamic systems that humans should influence rationally ariane tanner deciphers elements of physical biology as an interdisciplinary synopsis of its time denoting it as a key work of the 20th century s narrative of energetic holism at the same time she tells the story of lotka as a largely non academic researcher and scientific interventor who slipped through conventional reception models german description die welt mathematisieren und dadurch erklaren mit der monographie elements of physical biology trat der naturwissenschaftler und versicherungsstatistiker alfred james lotka 1925 dazu an samtliche prozesse auf dem planeten erde energetisch zu verstehen und zu formalisieren daraus entstand ein mathematisch exaktes gleichzeitig komplettes weltbild von dynamischen systemen die der mensch vernunftig beeinflussen sollte ariane tanner entziffert elements of physical biology als transdisziplinares panoptikum seiner zeit und deutet es als schlusselwerk fur eine geschichte der energetischen holismen im 20 jahrhundert gleichzeitig bietet sie eine erzählung über einen hauptsachlich ausserakademisch forschenden der als wissenschaftlicher interventor sowohl disziplinar wie auch innovatorisch zwischen die etablierten rezeptionsmuster fiel

Encyclopedia of Library and Information Sciences 2017-03-15

written by the editor of the encyclopedia of energy cutler cleveland dictionary of energy gives professionals across the multi disciplinary field of energy a tool to better communicate on energy matters and understand energy issues and opportunities this paperback edition priced at less than half the price of the hardcover edition and expanded with over 500 new terms makes this valuable reference available to an even wider audience beyond energy scientists including new professionals students and corporate oil and gas companies over 10 000 entries covering some 40 scientific disciplines and topics essays by scientists biographical entries on key individuals and historical comments historical quotes on energy matters illustrated with 100 photos and illustrations now expanded with over 500 new terms and available in paperback at half the price of the first edition

The Empathic Civilization 2010-04-12

theoretical ecology concepts and applications continues the authoritative and established sequence of theoretical ecology books initiated by robert m may which helped pave the way for ecology to become a more robust theoretical science encouraging the modern biologist to better understand the mathematics behind their theories this latest instalment builds on the legacy of its predecessors with a completely new set of contributions rather than placing emphasis on the historical ideas in theoretical ecology the editors have encouraged each contribution to synthesize historical theoretical ideas within modern frameworks that have emerged in the last 10 20 years e g bridging population interactions to whole food webs describe novel theory that has emerged in the last 20 years from historical empirical areas e g macro ecology and finally to cover the rapidly expanding area of theoretical ecological applications e g disease theory and global change theory the result is a forward looking synthesis that will help guide the field through a further decade of discovery and development it is written for upper level undergraduate students graduate students and researchers seeking synthesis and the state of the art in growing areas of interest in theoretical ecology genetics evolutionary ecology and mathematical biology

Die Mathematisierung des Lebens 2017-03-10

this book provides an elementary yet comprehensive introduction to the numerical solution of partial differential equations pdes used to model important phenomena such as the heating of apartments and the behavior of electromagnetic waves these equations have applications in engineering and the life sciences and most can only be solved approximately using computers numerical analysis of partial differential equations using maple and matlab provides detailed descriptions of the four major classes of discretization methods for pdes finite difference method finite volume method spectral method and finite element method and runnable matlab code for each of the discretization methods and exercises it also gives self contained convergence proofs for each method using the tools and techniques required for the general convergence analysis but adapted to the simplest setting to keep the presentation clear and complete this book is intended for advanced undergraduate and early graduate students in numerical analysis and scientific computing and researchers in related fields it is appropriate for a course on numerical methods for partial differential equations

Dictionary of Energy 2009-08-24

this biography of one of the world s foremost demographers traces in addition to ansley coale s own life and work the progress of worldwide demographic research in the 20th century one chapter records the important work of his mentor frank notestein particularly on fertilty and contraception s effect on it as well as his founding of the office of population research at princeton an institution vitally important in ansley coale s career coale s professional activities took him in such various directions as professor of economics at princeton studying population and economic development in low income countries research on the european fertility project stabilizing analytical demography including the study of stable populations correcting bad data in the u s and other countries and creating demographic models for mortality fertility and marriage as u s representative on the un population commission he served as an advisor to africa europe latin america and asia and participated in the international union for scientific study of population coale directed the office of population research between 1959 and 1973 and was senior research demographer there until the late 1980s one of his major focuses has been the social implications of atomic energy he has received many honors and is the author of many articles and several books on population photos

Theoretical Ecology 2020-05-11

these essays written by students of robert heilbroner develop central themes in his work the importance of historical perspective in economics the connection with the great questions of philosophy and the immediacy of politics they begin by criticizing the rational maximizing foundations of conventional theory finding no place there for history the essays first explore methodology then technology in relation to history the politics inherent in economics and finally

turn to the great classics interpreted in relation to modern questions

Numerical Analysis of Partial Differential Equations Using Maple and MATLAB 2018-01-01

this book argues that mainstream economics with its present methodological approach is limited in its ability to analyze and develop adequate public policy to deal with environmental problems and sustainable development each chapter provides major insights into many of today's environmental problems such as global warming and sustainable growth building on the strengths and insights of post keynesian and ecological economics and incorporating cutting edge work in economic complexity bounded rationality and socio economic dynamics this book provides an interdisciplinary approach to deal with a broad range of environmental concerns the contributors show how and where the two traditions share common ground concerning environmental problems and shed light on how the two schools can learn from one another the book will be of great value to post keynesian and ecological economists as well as to those interested in new approaches to important global environmental issues

Ansley J. Coale 2000

population and society an introduction to demography is an ideal text for undergraduate as well as graduate students taking their first course in demography it is sociologically oriented although economics political science geography history and the other social sciences are also used to inform the materials although the emphasis is on demography the book recognizes that at the individual level population change is related to private decisions especially in relation to fertility but also to mortality and migration the text thus considers in some detail the role of individuals in population decision making at the level of countries and even the world changes in population size have an important effect on the environmental and related challenges facing all of the world's inhabitants therefore attention is paid to the broad implications of population growth and change

Selected Bibliography on Medical Economics 1945

drawing on the middle chapters from the first edition of j barkley rosser's seminal work from catastrophe to chaos this book presents an unusual perspective on economics and economic analysis current economic theory largely depends upon assuming that the world is fundamentally continuous however an increasing amount of economic research has been done using approaches that allow for discontinuities such as catastrophe theory chaos theory synergetics and fractal geometry the spread of such approaches across a variety of disciplines of thought has constituted a virtual intellectual revolution in recent years this book reviews the applications of these approaches in various subdisciplines of economics and draws upon past economic thinkers to develop an integrated view of economics as a whole from the perspective of inherent discontinuity

Economics as Worldly Philosophy 2016-07-27

this book illustrates how models of complex systems are built up and provides indispensable mathematical tools for studying their dynamics this second edition includes more recent research results and many new and improved worked out examples and exercises

Post Keynesian and Ecological Economics 2009

Fertility and Reproduction 1932

Public Health Reports 1938

Population and Society 2010-04-07

Complex Evolutionary Dynamics in Urban-Regional and Ecologic-Economic Systems 2011-06-22

Modeling Complex Systems 2010-09-09

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