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The book is based on a detailed corpus-based investigation of the structure of noun phrases (NPs) in Singaporean English and Kenyan

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English with the aim of detecting, on the one hand, typological effects from substrate languages and, on the other hand, simplification patterns known to play a role in such varieties.

The social sciences have sophisticated models of choice and equilibrium but little understanding of the emergence of novelty. Where do new alternatives, new organizational forms, and new types of people come from? Combining biochemical insights about the origin of life with innovative and historically oriented social network analyses, John Padgett and Walter Powell develop a theory about the emergence of organizational, market, and biographical novelty from the coevolution of multiple social networks. In the short run, they argue, actors make relations, but in the long run, they argue, actors make actors. Organizational novelty arises from

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spillover across intertwined networks, which tips reproducing biographical and production flows. This theory is developed through formal deductive modeling and through a wide range of careful and original historical case studies, ranging from early capitalism and state formation, to the transformation of communism, to the emergence of contemporary biotechnology and Silicon Vally. -- from back cover.

This book provides a self-contained presentation of the physical and mathematical laws governing complex systems. Complex systems arising in natural, engineering, environmental, life and social sciences are approached from a unifying point of view using an

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array of methodologies such as microscopic and macroscopic level formulations, deterministic and probabilistic tools, modeling and simulation. The book can be used as a textbook by graduate students, researchers and teachers in science, as well as non-experts who wish to have an overview of one of the most open, markedly interdisciplinary and fast-growing branches of present-day science. Contents: The Phenomenology of Complex Systems: Complexity, a New Paradigm Signatures of Complexity Onset of Complexity Four Case Studies Summing Up Deterministic View: Dynamical Systems, Phase Space, Stability Levels of Description Normal Forms The Limit of Universality Deterministic Chaos Emergence Coupling-Induced Complexity Modeling Complexity Beyond Physical Science Probabilistic Description: Need for a Probabilistic Approach Probability Distributions and Their Evolution Laws The

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Dynamics Networks Perspectives on Biological

Complexity Equilibrium Versus Nonequilibrium in Complexity and Self-Organization Epistemological Insights from Complex

Systems Outlook. The Future of Complexity Readership: Graduate students, researchers, academics and professionals interested in nonlinear science. Keywords: Nonlinear Dynamics; Chaos; Self-

Organization; Emergence; Probability and

Information; Predictability; Non-Equilibrium

Systems; Irreversibility; Systems Biology Key Features: A unique

vision highlighting complexity as part of fundamental science and a clear, unifying presentation of the concepts and tools needed to

analyze complex systems Illustrates the interdisciplinary dimension of complexity research through representative examples pertaining

to problems of current concern New edition, including a large

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collection of exercises and problems with hints for solution and an updated survey of the literature  
Reviews: “The book can be used as a textbook by graduate students, researchers and teachers in science, as well as non-experts who wish to have an overview of the field.”  
Zentralblatt MATH

This book contains the most sustained and serious attack on mainstream, neoclassical economics in more than forty years. Nelson and Winter focus their critique on the basic question of how firms and industries change overtime. They marshal significant objections to the fundamental neoclassical assumptions of profit maximization and market equilibrium, which they find ineffective in the analysis of technological innovation and the dynamics of competition among firms. To replace these assumptions, they

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borrow from biology the concept of natural selection to construct a precise and detailed evolutionary theory of business behavior. They grant that firms are motivated by profit and engage in search for ways of improving profits, but they do not consider them to be profit maximizing. Likewise, they emphasize the tendency for the more profitable firms to drive the less profitable ones out of business, but they do not focus their analysis on hypothetical states of industry equilibrium. The results of their new paradigm and analytical framework are impressive. Not only have they been able to develop more coherent and powerful models of competitive firm dynamics under conditions of growth and technological change, but their approach is compatible with findings in psychology and other social sciences. Finally, their work has important implications for welfare economics and for government policy toward industry.

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Fungal Phylogenetics and Phylogenomics, Volume 99, the latest release in the Advances in Genetics series, presents users with new chapters that delve into such topics as the Advances of fungal phylogenomics and the impact on fungal systematics, Data crunching for fungal phylogenomics: insights into data collection and phylogenetic inference based on genome data for fungi, Genomic and epigenomic traits of emerging fungal pathogens, Advances in fungal gene cluster diversity and evolution, Phylogenomics of *Fusarium oxysporum* species complex, Phylogenomic analyses of pathogenic yeasts, and the Phylogenetics and phylogenomics of rust fungi. The series continually publishes important reviews of the broadest interest to geneticists and their colleagues in affiliated disciplines, critically analyzing future

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directions. Critically analyzes future directions for the study of clinical genetics Written and edited by recognized leaders in the field Presents new medical breakthroughs that are occurring as a result of advances in our knowledge of genetics

Evolutionary Phonology is a theory of sound patterns which synthesizes results in historical linguistics, phonetics and phonological theory. In this book, Juliette Blevins explores the nature of sounds patterns and sound change in human language over the past 7000–8000 years, the time depth for which the comparative method is reasonably reliable. This book presents an approach to the problem of how genetically unrelated languages, from families as far apart as Native American, Australian Aboriginal, Austronesian and Indo-European, can often show similar sound

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patterns, and also tackles the converse problem of why there are notable exceptions to most of the patterns that are often regarded as universal tendencies or constraints. It argues that in both cases, a formal model of sound change that integrates phonetic variation and patterns of misperception can account for attested sound systems without reference to markedness or naturalness within the synchronic grammar.

Notwithstanding its detractors, evolutionary science has anticipated modern genetic research and continued to illuminate mysteries about our past and our connectedness to the species around us. Detailing the evolutionary process and speciation as well as the continuing debates about evolution's inherent validity, this engrossing volume considers all aspects of this exciting field of

# Access Free Emergence Ysis And Evolution Of Structures Concepts And Strategies Across Disciplines study.

A famed political scientist's classic argument for a more cooperative world We assume that, in a world ruled by natural selection, selfishness pays. So why cooperate? In *The Evolution of Cooperation*, political scientist Robert Axelrod seeks to answer this question. In 1980, he organized the famed Computer Prisoners Dilemma Tournament, which sought to find the optimal strategy for survival in a particular game. Over and over, the simplest strategy, a cooperative program called Tit for Tat, shut out the competition. In other words, cooperation, not unfettered competition, turns out to be our best chance for survival. A vital book for leaders and decision makers, *The Evolution of Cooperation* reveals how cooperative principles help us think better about everything from military

# Access Free Emergence Ysis And Evolution Of Structures Concepts And Strategy, to political elections, to family dynamics.

Genetic algorithms are playing an increasingly important role in studies of complex adaptive systems, ranging from adaptive agents in economic theory to the use of machine learning techniques in the design of complex devices such as aircraft turbines and integrated circuits. Adaptation in Natural and Artificial Systems is the book that initiated this field of study, presenting the theoretical foundations and exploring applications. In its most familiar form, adaptation is a biological process, whereby organisms evolve by rearranging genetic material to survive in environments confronting them. In this now classic work, Holland presents a mathematical model that allows for the nonlinearity of such complex interactions. He demonstrates the model's universality by applying it to



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Strategies Across Disciplines economics, physiological psychology, game theory, and artificial intelligence and then outlines the way in which this approach modifies the traditional views of mathematical genetics. Initially applying his concepts to simply defined artificial systems with limited numbers of parameters, Holland goes on to explore their use in the study of a wide range of complex, naturally occurring processes, concentrating on systems having multiple factors that interact in nonlinear ways. Along the way he accounts for major effects of coadaptation and coevolution: the emergence of building blocks, or schemata, that are recombined and passed on to succeeding generations to provide, innovations and improvements.