
Complex Population Dynamics A Theoretical Empirical Synthesis

complex population dynamics and the coalescent under ... - complex population dynamics and the coalescent under neutrality erik m. volz¹ department of epidemiology, university of michigan, ann arbor, michigan 48109 abstract estimates of the coalescent effective population size n_e can be poorly correlated with the true population size. the relationship between n_e and the population size is sensitive ...

complex population dynamics and control of the invasive ... - complex population dynamics and control of the invasive biennial *alliaria petiolata* (garlic mustard) eleanor a. pardini,^{1,3} john m. drake,² jonathan m. chase,¹ and tiffany m. knight¹ ¹department of biology, washington university, st. louis, missouri 63130 usa ²odum school of ecology, university of georgia, athens, georgia 30602 usa abstract.

complex population dynamics in the real world: modeling ... - population dynamics may combine density-dependent, inversely density-dependent, and density-independent processes, which may operate at different times and under different density ranges. these results suggest that our approach offers an advance for modeling complex population dynamics, discovering complex regulation processes, and estimating

complex population dynamics - project muse - complex population dynamics peter turchin published by princeton university press turchin, peter. ... a more complex dynamical behavior is a stable limit cycle continuous models, the limit cycle attractor is a closed curve in the phase space that all trajectories approach. in order for a differential

complex dynamics of v_1 population responses explained by a ... - complex dynamics of v_1 population responses explained by a simple gain-control model ... v_1 population responses explained by gain-control 944 neuron 64, 943-956, december 24, 2009 ©2009 elsevier inc. produce a single time course for the corresponding distance.

evolution of complex dynamics in spatially structured ... - dependence leads to equilibrium dynamics, while over-compensating density dependence may induce complex population dynamics. we argue that the way that individuals locally respond to limiting resources may be linked to their dispersal behaviour. consequently, we change the perspective of the discussion about the evolution of complex dynamics

complex multilocus population dynamics under mixed ... - keywords: complex population dynamics, stability of complex dynamics, evolution of reproduction type 1. introduction mendel laws by themselves do not produce complex trajectories of corresponding genetic systems (Iyich, 1992), while this can be possible upon selection. the first (and probably the last) example of complex dynamics for

complex dynamics - university of georgia - complex dynamics key concepts cycles overcompensation bifurcation aperiodic dynamics/dynamical chaos cycles and other complex dynamics the topic of this chapter is complex dynamics. up to this point we have studied population phenomena that are simple, including stable equilibria, exponential growth, and diffuse spread.

estimating chaos and complex dynamics in an insect population - estimating chaos and complex dynamics in an insect population brian dennis,^{1,6} robert a. desharnais,² j. m. cushing,³ shandelle m. henson,⁴ and r. f. costantino⁵ ¹department of fish and wildlife resources and division of statistics, university of idaho, moscow, idaho 83844 usa

complex dynamics in ecological time series - duce complex population dynamics-limit cycles, quasiperiodic oscillations, and aperiodic chaos. while the possibility of such dynamics has been recognized theoretically since the 1970s (may 1974, 1976), most ecologists have remained skeptical of their importance in nature.

2 n: some tools from linear algebra for ... - dynamics - intro karlin's thms. 5.1 and 5.2 thm. 5.2: donsker-varadhan multi-hit karlin's thm 5.1 ² n: some tools from linear algebra for analyzing complex population dynamics models

6 population dynamics of southern pine beetle in forest ... - spb damage is driven by complex population dynamics that we currently do not fully understand. 6.1.2. why are landscape population dynamics important for spb management? patterns of spb damage have both spatial and temporal components. outbreaks occur infrequently through time (at periods of between 5 and 15 years depending on

complex dynamics of v_1 population responses ... - cell - neural population activity. we characterized the spatiotemporal properties of the v_1 population responses to small, briefly presented, stimuli that are relevant in natural vision, and found that the response dynamics are complex and unexpected from the results in single unit recordings. importantly, we show that

population and coherence dynamics in light harvesting ... - population and coherence dynamics in light harvesting complex ii (lh2) shu-hao yeh,¹ jing zhu, and sabre kais^{1,2,a} ¹ department of chemistry and birck nanotechnology center, purdue university, west lafayette, **demographic obesity modeling based on complex system dynamics** approach by farzaneh salamati a thesis submitted to the faculty of graduate studies through the department of industrial and manufacturing systems engineering ... monitor body weight on individual and population levels.

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