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# Biological Oscillators Mathematical Analysis Pavlidis Theodore

**modeling, analysis, and control of biological oscillators** - biological implications for understanding the developmental stage of maxobacteria, it is of great importance to provide rigorous mathematical analysis in addition to the simulation results reported so far. more precisely, since the michaelis-menten constants have not been experimentally identified [73], it is crucial to be able to **modeling, analysis, and control of biological oscillators** - the thesis has been concerned with modeling, analysis, and control of biological oscillators. chapter 1 has presented a brief background on the problems that have been studied in this book. chapter 2 has reviewed some concepts and tools, used in next chapters. the main results have been presented in chapters 3 - 7. the present **coupled oscillators and biological synchronization** - since about 1960, mathematical bi-ologists have been studying simplified ... ical analysis. fireBies are a paradigm of a pulse coupled oscillator system: they ... book on biological oscillators by arthur t. winfree of the university of arizona . **mathematical modelling in biological science** - mathematical modelling in biological science sze-bi hsu department of mathematics tsing-hua university, taiwan ... biological oscillators: feedback and control mechanisms, hodgkin-huxley ... elementary mathematical analysis or **synchronization of pulse-coupled biological oscillators** ... - the mathematical analysis of mutual synchronization is a challenging problem. it is difficult enough to analyze the dynamics of a single nonlinear oscillator, let alone ... synchronization of biological oscillators 1647 100  $x = x_0$  1.0 fig. 1. graph of the function f. the timecourse of the integrate-and-fire oscillation is given by x **analytical bounds on the critical coupling strength in a ...** - analytical bounds on the critical coupling strength in a population of heterogeneous biological oscillators ... mathematical analysis of the kuramoto [14] and other related models [1] provides a starting point to study ... a network of oscillators, biological oscillators usually do not exhibit explicit phase difference coupling. however, with ... **synchronization of pulse-coupled biological oscillators** ... - the mathematical analysis of mutual synchronization is a challenging problem. it is difficult enough to analyze the dynamics of a single nonlinear oscillator, let alone a whole population of them. the seminal work in this area is due to winfree [47]. ... synchronization of biological oscillators fig. 1. **robustness and period sensitivity analysis of minimal ...** - analysis of minimal models for biochemical oscillators angélicaicedo-casso1,2, ... revealing theories behind these oscillators. mathematical analyses ... molecular mechanisms of biological oscillators such as cell cycle and circadian rhythms contain both positive and negative feedback loops4,5. recent efforts

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