

# **PHASE LOCKING IN NEURAL TISSUE AND ITS POSSIBLE ROLE IN NEURONAL CODING.**

Frank Hoppensteadt

Abstract: Numerous experiments on Hodgkin-Huxley preparations of squid axon have demonstrated the ability of such tissue to respond to frequency coded stimulation in a variety of frequency locked ways. Moreover, recent experiments have demonstrated interesting frequency filtering properties of synapses. We describe here engineering aspects of electronic communication that are based on frequency, and we discuss the possible relevance of these to living neural networks.