

**Название публикации:**

Synchronization of relaxational self-oscillating systems: Synchronization in neural networks

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**Аннотация:**

A general problem of the synchronization and mutual synchronization of relaxational self-oscillating systems is formulated. A direct way of describing the synchronization of relaxational systems on the basis of Kronecker's inequalities is proposed. The solution to the problem formulated by N. Wiener and A. Rosenbluth of forming a single rhythm in a system of coupled relaxational oscillators is described. Specific transient processes in the synchronization of relaxational systems are considered. Burst synchronization in neural networks and synchronization in distributed relaxational systems are also described.

**Ключевые слова:**

Physics, Kronecker, Mutual synchronization, Self-oscillating systems, Transient process, Synchronization