

Abstracts

The Effects of Nonlinear Membrane Capacity on the Interaction of Microwave and Radio Frequencies with Biological Materials

G.C. Berkowitz and F.S. Barnes. "The Effects of Nonlinear Membrane Capacity on the Interaction of Microwave and Radio Frequencies with Biological Materials." 1979 Transactions on Microwave Theory and Techniques 27.2 (Feb. 1979 [T-MTT]): 204-207.

A model for the capacitance of biological membranes as a function of voltage is used to predict signal mixing and difference frequency generation in membranes. Production of low-frequency signals by the biomembrane from modulated RF is predicted, and implications for macroscopic modification of membrane function are discussed.

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