

Review on interaction between electromagnetic field and biological tissues

Abstract

The objective of this paper is to have a look on the interaction of electromagnetic field (EM) on biological tissue from the view of physiological and electrical engineering. The understanding of the phenomena in the interaction may give clear picture on the fundamental concept of dielectric dispersion in term of suitable frequency application and the reaction of biological tissue to it. The other factors such as thermal effect also will be gone through. This review may provide some useful information to the research of magnetic induction tomography on the biological tissue imaging and electromagnetic therapy which apply electromagnetic field at certain frequency in their application.

Keywords

Biological tissue; Dielectric; Electromagnetic field; Therapy; Tomography