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Certificate

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STUDY ON BASIC LAWS OF ELECTROMAGNETICS AIDING SCIENTIFIC APPLICATIONS IN MEDICINE AND HEALTHCARE

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Abstract

The topic of electromagnetism can be both confusing and controversial, yet it is intriguing and fascinating. The history of electromagnetic field (EMF) applications and research has been mired in secrecy and suspicion. Here usage of EMF in medicine and health care is described with important fundamentals terms and parameters. This paper presents natural exposures to a variety of electromagnetic phenomena and proper consideration of electromagnetic hygiene measures. The basics laws of electromagnetics like coulomb's law, ampere's law, electric flux density in two-dimensional simulation and electric flux density, electromagnetic waves in three dimensional simulations had been demonstrated using MATLAB. The mentioned basic laws had been studied relating it's the practical use in medicine and health care.

Keywords---Electromagnetic Field, Electromagnetic Waves, Coulombs Law, Ampere's Law, Electric Flux Density, Electromagnetic Spectrum, Medical Treatments.