



# Progress In Ultrashort Electromagnetic Pulse Technology

**John M. Dudley**



## **Progress In Ultrashort Electromagnetic Pulse Technology:**

**Ultrashort Electric Pulse Effects in Biology and Medicine** Stephen J. Beebe, Ravi Joshi, Karl H. Schoenbach, Shu Xiao, 2021-05-22 This book presents an overview of the current state of research on ultrashort electric field pulses of high intensity and their use in biology and medicine. It examines in detail the most recent and exciting advances in how nanosecond and picosecond electric pulse research has grown and expanded into new areas of biology and medicine. Further, the book specifically focuses on electric pulses in the time domain on intracellular effects as opposed to plasma membrane electroporation and highlights the biological and medical applications of these unique pulse effects. Since the authors were initial innovators exploring nanosecond and picosecond pulses, their unique perspectives foreshadowed directions the research took, expanding into new areas that they continue to investigate today.

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**Measurement of Ultrashort Electromagnetic Pulses** John M. Dudley, 2008 *Ultra Short Pulse Electroporative Physics and Technology*, 2004 The project has demonstrated that ultra short high field pulses are a useful tool for study of cellular physiology and a potential therapeutic instrument for malignant cells. The research has established that intracellular effects including apoptosis can be induced by the application of short intense but low total energy electric pulses. Experiments on human cells have produced convincing evidence that these applied fields nondestructively alter subcellular processes and can be investigated using biophotonic studies for imaging of morphological and functional changes at subcellular levels. The results suggest a promising pathway toward achieving the ultimate goal of selectively disabling tumor or other undesirable cells. In addition to demonstrating that ultrashort pulses have potentially important applications for cell and cancer biology investigations and for understanding the application of pulsed fields to living matter, these results demonstrate that an effective and productive multidisciplinary collaboration between science, engineering, medicine, and biology has been created. nanosecond high field electric pulse electroporation pulse induced phospholipid translocation nanoelectropuls%

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