

Generation of High Power Ultra-Wideband Electrical Impulse by Optoelectronic Technique

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Progress in the application of ultrafast optics and photoconductive switching for the generation of high power ultra-wideband electrical impulses is reviewed. Several techniques are described. Megawatt pulses with picosecond rise-and falltimes and variable pulse duration have been obtained. Using photoconductive switch both as a closing and opening switch in an inductive energy storage system the electrical pulse power enhancement of a factor of 50 has been demonstrated for the first time.

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