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摘要: The principles of impedance matching in photoconductive antennas in comparison with conventional antennas are described. Because of the optical nature of the input signal in photoconductive antennas and the dependence of photoconductor conductance on the optical pump power, the optimum photoconductor impedance is not necessarily determined by the complex conjugate of antenna impedance. Using the equivalent circuit model of photoconductive antennas, the photoconductor impedance optimization criteria are evaluated according to the photoconductive antenna structure and operational settings.
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