

CARS DIAGNOSTIC OF GAS FLOW, ELECTRICAL CHARGE AND BURNING PROCESSES

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A.M. Prokhorov general physics institute Russian academy of sciences

It is described questions of CARS spectroscopy nonlinear optical method using in investigations of gas flows, burns and electrical charges. It is shown that the using of this local diagnostic method allows receiving not only quality information, but also quantitative data about frequencies and lines' width in diffusion specters of molecular transitions, functions of molecule condition's distribution, temperatures in range 10-4000K and about processes of molecule energy distribution and transmission.