IMITATING MODELS AND THE SOFTWARE FOR MODELING INFLUENCE OF AEROSOL MEANS ON ELECTRO-OPTICAL AND RADAR-TRACKING SYSTEMS

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In this report the influence of aerosol deposits on performance of optoelectronic system (OES) and radar-tracking systems (RTS) is considered (including an extreme situations of fires, explosions, terrorist attacks and application of aerosol means against protected object). The necessity of such investigation is caused by development of computer technologies, allowing to develop imitating mathematical models and program codes for calculation of an efficiency of impact of aerosol "non-lethal" weapon on complex technical systems.

Key words: a layer of aerosol deposit; probability of detection; optico-electronic systems, radar-tracking systems