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MATHEMATICAL MODEL FOR ASSESSMENT OF ROBOTIC SYSTEMS CAPACITY TO COMBAT THE ENEMY BASED ON THE EQUATIONS OF HIGHLY ORGANIZED MILITARY ENGAGEMENT DYNAMICS

The paper presents an analytical model for solving the problem of predicting an average number of hit and unaffected enemy forces and robotic systems group based on a mathematical model of highly organized combat. The dynamics of the battle is described as a random Markov process that allows us to determine the average number of the parties for any given time.

Keywords: highly organized combat, robotic complex, enemy, effective rate of fire, equation of average dynamics, mathematical expectation of combat-ready units, reduced time, forecast.

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