The algorithm for generating dynamics equations for a mechanical system with a finite number of degrees of freedom based on the theorem of change of kinetic energy

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By the example of planar mechanisms with two degrees of freedom the article demonstrates principles of organization of the algorithm to represent dynamics equations based on the theorem of change of kinetic energy in differential form. The offered technology of displaying mathematical model of a dynamic condition of mechanical system differs from classical methods, including Lagrange equations of the second kind.

Keywords*: kinetic energy, algorithm to derive the equations, equations of dynamics, linear combination of variables, independent variables.*

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