عنوان مقاله:

Mathematical model for dynamic analysis of internal combustion engines

محل انتشار:

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خلاصه مقاله:

The existence of friendly programming environments, which allow the transposition of models developed for different mechanical systems into numerical procedures, easy to access, make it necessary to develop models of mechanical systems used in industry. In this work, we propose to do this for an internal combustion engine. The offered model allows the unitary solution of problems of this type, which involves the calculation of the forces appearing in the engine elements. It offers the possibility to analyze different constructive types of engines. The model is a complex model that finally provides the forces existing in different elements of the engine as well as the developed engine torque.

کلمات کلیدی:

IC engines, Crankshaft, camshaft, vector model, numerical procedures