

ANALYSIS OF THE STRAINS FIELD FOR AN INTERNAL COMBUSTION ENGINE WITH THE FINITE ELEMENT METHOD

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Abstract

A numerical analysis with finite elements method was performed in order to obtain the strain fields for a four-stroke engine mechanism. We have evolved and analysed the components response of the engine mechanism. The steady-state analysis was developed for two running rotation conditions. The numerical analysis was evolved for maximum acceleration condition. The research results will be marked out in a proper graphical type of Ansys software.

Keywords

Engine mechanism, strains field, steady-state analysis