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Marchenko A.P. Hydrogen combustion analyze and modeling in the four-stroke one-cylinder spark ignition engine A.P. Marchenko, А.А. Osetrov, I.Dubej, R.Мааmri //

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The article presents the results of hydrogen combustion

analis and modelling in the one-cylinder four-stroke spark

ignition engine. The one-zoned mathematical model of combustion

in basis I.I.Vibe's law is developed. It is shown, that

hydrogen combustion speed changes under the law having

the form, close to triangular. The analyse of influence of

constructive and adjusting parameters on the indicate diagram

is represented. Empirical equations for the parameter of

dynamics and the duration of combustion in I.I.Vibe's law are

offered. Tabl. 1. Il. 4. Bibliogr. 9 names.