EXERGETIC ANALYSIS OF THE THERMODYNAMIC PRO-CESSES FROM COMPRESSED IGNITION ENGINES

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ABSTRACT

In this paper is presented exergetic method for analysis of the effective thermodynamic processes from Compressed Ignition Engines for purpose formulated optimization problems in conditions establishment optimal functional regimes of the well- known Compressed Ignition Engines or in conditions optimal thermodynamic projection of the Compressed Ignition Engines.

REFERENCES

Brebbia C.A., *The Boundary Element Method for Engineering*, Pentech Press, Plymouth, 1978.
 Bettess P., *Infinite Elements*, International Journal for Numerical Methods in Engineering, vol. 11, John Wiley & Sons, USA, 1977.

3. Medina F. Taylor R.L., *Finite Element Techniques for Problems of Unbounded Domains*, International Journal for Numerical Methods in Engineering, vol. 19, John Wiley & Sons, USA, 1983.

4. Smith G.D., Numerical Solution of Partial Differential Equations, Mathematical Handbooks, Oxford, 1994.
5. Qiu Z.H., Wrobel L.C., Power H., Numerical Solution of Convection-Difuzion Problems at High Péclet Number Using Boundary Elements, International Journal for Numerical Methods in Engineering, vol. 41, 1998.
6. Peyret R., Taylor T.D., Computational Methods for Fluid Flow, Springer-Verlag, New York, 1983.

7. Zhang D.Z., Prosperetti A., *Momentum and Energy Equation for Disperse Two Phases Flows and Their Closure for Dilute Suspension*, International Journal of Multiphase Flows, vol. 23, nr.3, 1996.