

# **EXERGETIC ANALYSIS OF THE THERMODYNAMIC PROCESSES FROM SPARK-IGNITION ENGINES**

**Gheorghe C. DUMITRU**  
"Dunărea de Jos" University of Galati

## **ABSTRACT**

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

## **REFERENCES**

1. Dumitru Gh. C., *Termoeconomia instalatiilor energetice cu motoare cu ardere internă*, Galati. 2003.
2. Bejan A, Tsatsaronis G., Moran M. J., *Thermal Design and Optimization*, John Wiley and Sons., New York, 1966.
3. Dumitru Gh. C., *Contributii asupra fenomenelor dinamice din colectorul de admisie si influenta lor asupra umplerii la motoarele cu aprindere prin comprimare*, Teza de doctorat, Bucuresti, 1989.
4. Pshenichny B. N., Danilin Yu. M., *Numerical methods in extremal problems*, Mir Publishers, Moscow, 1978.
5. Godunov S. K., Reabenki V. S., *Scheme de calcul in diferențe finite*, Editura tehnica, Bucuresti, 1977.