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## Determination of optimum speed of an internal combustion engine by exergy analysis

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**Abstract:** In this study, energy and exergy analysis are applied to the experimental data of an internal combustion engine operating on the conventional Otto cycle. The data are collected using an engine test unit which enables accurate measurements of fuel flow rate, combustion air flow rate, engine load, engine speed and all the relevant temperatures. Energy and exergy efficiencies are calculated for different engine speeds and compared. Results indicate that energy efficiency is maximum at a speed of 2040 rpm whereas exergy efficiency is maximum at a speed of 2580 rpm.

**Keywords:** exergy analysis; exergy efficiency; internal combustion engine.

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**Biographical notes:** Mehmet Kopac received his BS degree in mechanical engineering from the Zonguldak Engineering-Architecture State Academy in 1979 and in 1984 he received his MS degree in mechanical engineering (energy sciences) from the Istanbul Technical University, Turkey. In 1992 he received his PhD degree in mechanical engineering (thermal sciences) from the Yildiz Technical University of Istanbul, Turkey. At present he is an Associate Professor at the Mechanical Engineering Department of Zonguldak Karacelmas University, Turkey. His major interests are exergy analysis of thermal systems, fluid mechanics and applications.

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# Determination Of Optimum Speed Of An Internal Combustion

**Kathleen Armour**



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