THE ENGINEERING COUNCIL EXAMINATION

PART (2) C - PROJECT REPORT

DESIGN AND CONSTRUCTION OF

A THREE PHASE TRANSISTOR INVERTER

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ABSTRACT

The project work dealt with the design, construction and testing of
a three phase MOSFET transistor inverter, using modern technology. The
operation of the inverter is controlled by an 8031 microcontroller.
Part of the work was thus involved with the developing and testing of
a suitable program. Apart from the programm, the main difficulty was
mainly involved with the MOSFETS' driving circuit. The inverter
worked properly after solving these problems.

Other minor difficulties were easily overcome.

Waveforms of the driving pulses and the a.c. output under load
conditions are included in the report.

ACKNOWLEDGEMENTS

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