

THE ENGINEERING COUNCIL EXAMINATION

PART (2) C - PROJECT REPORT

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 8081 microcontroller. Part of the work was thus involved with the developing and testing of a suitable program. Apart from this, the main difficulty was mainly involved with the design of the circuit. The inverter worked properly after some minor difficulties. Waveforms of the driving pulse and the a.c. output under load conditions are included in the report.



DESIGN AND CONSTRUCTION OF
A THREE PHASE TRANSISTOR INVERTER

BY: ANDREAS LOUCA

CORRESPONDENCE No: 16995

HIGHER TECHNICAL INSTITUTE, NICOSIA, CYPRUS

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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 program, 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.

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