

ANTENNA POSITION INDICATOR

Project Report submitted by
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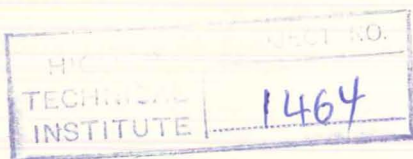
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ABSTRACT

This textbook deals with the design, construction and testing of "Position Antenna Indicator" unit.

Before the final design had been decided the necessity of the correct sensor selection was of first importance. Of course this require a basic knowledgement and consequently the details study of these transducers.

In accordance to the initial project suggestions an appropriate circuit design had been prepared to come across the project requirements.



Fig. 1 - Block diagram of a basic measurement system.

1.1 THE TRANSDUCER

The transducer element fig. 1 is an energy converter which converts the physical quantity being measured into an electrical signal and converts it into some other physical variable; e.g. flow to pressure, speed to voltage, etc. The transducer is undoubtedly the weakest link of the measuring chain, for the measured quantity is always distorted by the presence of the transducer. A perfect measurement theoretically impossible, this "loading" effect can be minimized by the design and the choice of the transducer, but it always present to some extent.

1.2 THE SIGNAL CONDITIONER

The signal conditioner in fig. 1 receives the transducer output into a form which can be readily recorded or monitored.

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