

Manual of electric instruments - construction and operating principles.

Meter & Instrument Divisions - PMMC Instruments



Description: -

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Electric apparatus and appliances. Manual of electric instruments - construction and operating principles.

- Manual of electric instruments - construction and operating principles.

Notes: At head of title: GET-1087 A.

This edition was published in 1950



Filesize: 70.104 MB

Tags: #Analog #Instruments

Moving Iron instruments Principle, operation and Type, Theory of Attraction

For Hall-effect sensors used in BLDC motors, whenever rotor magnetic poles N or S pass near the hall sensor, they generate a HIGH or LOW level signal, which can be used to determine the position of the shaft. This torque is at its maximum when the rotor starts to move, but it reduces as the two fields align to each other.

Indicating instruments

Thus the current reduces from primary to secondary.

Types of electrical measuring instruments

Hence the corresponding magnetizing current is also small.

Electrical Transformer

When this type of instrument is used to measure a heavy amount of current about 20A , the moving coil is usually connected in series with a swamping resistance, across a shunt, together with the fixed coils. The iron van is so situated that it can move in the magnetic field produced by a stationary coil.

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The detector should be capable of displaying unbalance i.

Electrical Transformer

A live tank CT is shown in the figure. In some, the bar carrying high current may act as a primary. Figure4: An example of Cold Junction Compensation It should be underlined that the cold junction compensation cannot reproduce exactly the voltage versus temperature relationship of the thermocouple, but can only approximate it: for this reason the cold junction compensation introduces an error in the temperature measurement.

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The value of the electrical quantity to be measured in these instruments can be determined from the deflection of the instrument. It does it same work, but in a different manner.

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