

**EMI LAB
SEM V (ECE)
EXPERIMENT NO.: 1**

AIM:- Measurement of displacement using LVDT.

APPARATUS REQUIRED:- LVDT kit, multimeter, connecting wires.

BRIEF THEORY:-

The differential transformer is a passive inductive transformer also known as Linear Variable Differential Transformer (LVDT). LVDT has a soft iron core which slides within the hollow transformer & therefore affects magnetic coupling between the primary and two secondaries. The displacement to be measured is applied at its arm attached to soft iron core. When core is in normal position (null), equal voltages are induced in the two secondaries. The frequency of ac applied to the primary winding ranges from 50Hz to 20KHz.

CIRCUIT DIAGRAM:



PROCEDURE:-

1. Connect the circuit according to circuit diagram.
2. Switch on the power supply.
3. The core is initially brought to null position.
4. First turn the nut in clockwise direction to move core inwards i.e. left of null position & take respective voltage readings on the voltmeter.
5. Now turn nut in anticlockwise direction to move the core towards right of null point & again take respective voltage reading from voltmeter.
6. Plot the graph from the observations taken.

OBSERVATIONS TABLE:

S.No	Displacement Micrometer (mm)	Displacement Reading (mm)	Analog o/p
1.			

GRAPH:



RESULT:- Graph between voltage and displacement is plotted.

DISCUSSION:- It worked as linear variable differential transformer.

PRECAUTIONS:-

1. Handle all equipments with care.
2. Make connections according to the circuit diagram.
3. Take the readings carefully.
4. The connections should be tight.

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A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the University of Alaska text.

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Technical Reports Awareness Circular : TRAC. ,1988-07 **General Catalogue** University of Alaska (College),1953

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Bibliography 1981-84: Bibliographic references ,1985 *Athletic Training Exam Review* Lynn Van Ost, Karen Lew Feirman, Karen Manfré, 2024-06-01 For more than 20 years Athletic Training Exam Review has empowered and enabled students to assess and evaluate their athletic training knowledge skills and decision making abilities Now newly updated for its platinum anniversary the Seventh Edition continues a tradition of excellence while serving as a premier guide to successfully achieving certification as an athletic trainer The Seventh Edition serves as a comprehensive self evaluation tool elevating readers level of preparation for the BOC exam This market leading guide has made a positive impact on the athletic training profession by highlighting and improving students strengths and weaknesses What s inside Updated study techniques and test taking strategies An expanded overview of the exam format to assist in organization and planning More than 1 300 multiple choice questions and nearly 100 true false questions updated and organized according to the BOC s Practice Analysis Seventh Edition Educational Domains Clinical decision making questions testing the ability to make appropriate judgment calls using problem solving A skills assessment composed of 26 problems designed to test manual athletic training skills Scenario based problems to strengthen critical thinking abilities In addition to the updated content the Seventh Edition also features a fully redesigned and expanded online test taking experience including New user friendly mobile format 8 knowledge assessment tests 3 more than the previous edition 5 unique true false exams 20 total drag and drop identification photographs 8 more than the previous edition 43 critical thinking scenarios 3 clinical decision making exams containing scenario based exam questions 13 video segments with related questions for practicing evaluation and

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