

Experiment No. 3

Title: Plot the characteristic curves of RTD and Thermocouple

Objectives:

- Explore the working principle of RTD and Thermocouple
- Study signal conditioning circuits of RTD and Thermocouple
- Plot and investigate the characteristic curves of RTD and Thermocouple

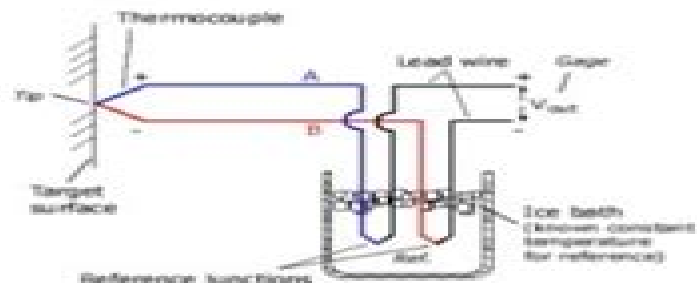
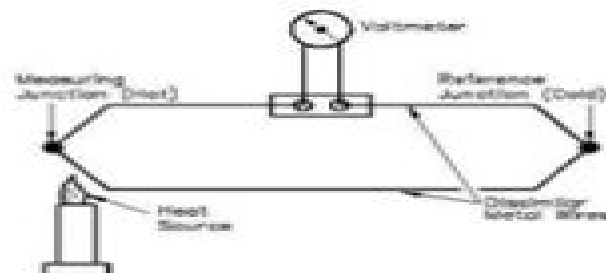
Theory:

Resistive Temperature Detectors (RTDs):

RTDs are made up of metal wire or fiber material that responds to temperature change by changing resistance. Platinum, nickel, and tungsten are mostly used that have high resistivity, good temperature coefficient of resistance, good tensile strength and chemical inertness with packaging and insulation materials. The change in resistance can be determined using a bridge circuit. RTDs are generally more accurate than thermocouples, but are less rugged and cannot be used at high temperatures.

Thermocouples:

Thermocouple is the most popular type of sensor. It is based on the principle that two wires made of dissimilar materials connected at either end will generate a potential between the two ends that is the function of materials and temperature difference between two ends. Base metal thermocouples are useful for measurement of temperatures under 1000 degree Celsius. This class includes iron/constantan (Type J), Chromel/Alumel (Type K) and number of others. Nobel metal thermocouples are useful to about 2000 degree Celsius. This class includes tungsten-rhenium alloy thermocouples and others. The potential generated is in millivolts and is a nonlinear function of temperature. In practice, one end is placed near the material to be measured (measuring junction) and the other end is connected to the instrument. Inside instrument is a reference junction whose temperature is maintained using appropriate heat insulation.



Transducer And Measurements Lab Manual

Roger Eston, Thomas Reilly



Transducer And Measurements Lab Manual:

Laboratory Manual: Instrumentation and Control Systems Lab V. Amarnath Reddy, Invasive Cardiology: A Manual for Cath Lab Personnel with Navigate Advantage Access Sandy Watson, Kenneth A . Gorski, 2022-03-10 This book is written primarily for technical and nursing professionals training to work in catheterization laboratories It also serves as a reference manual for these professionals during their first few years in the lab **Laboratory Manual for Anatomy and Physiology** Connie Allen, Valerie Harper, 2011-01-05 The Laboratory Manual for Anatomy and Physiology by Allen and Harper presents material in a clear and concise way It is very interactive and contains activities and experiments that enhance readers ability to both visualize anatomical structures and understand physiological topics Lab exercises are designed to require readers to first apply information they learned and then to critically evaluate it All lab exercises promote group learning and the variety offers learning experiences for all types of learners visual kinesthetic and auditory Additionally the design of the lab exercises makes them easily adaptable for distance learning courses *Respiratory Care Clinical Competency Lab Manual* Sandra T Hinski, 2013-12-10 Respiratory Care Clinical Competency Lab Manual provides the practical skills needed to apply classroom theory to clinical practice This text has the flexibility to be used in conjunction with all other respiratory care titles as well as in other disciplines that require competencies in respiratory therapy With detailed step by step procedures supporting procedural illustrations hands on lab exercises case studies and critical thinking questions this text helps you understand and apply theoretical knowledge by demonstrating specific skills Procedural competency evaluation forms help you to assess your progress and performance of specific procedures Detailed structured lab activities provide hands on opportunities to assess psychomotor and patient communication skills in a controlled environment Content correlation to NBRC combined CRT RRT exam content outlines helps you better prepare for credentialing exams Step by step procedural competencies prepare you for the RT competency areas established by the American Association of Respiratory Care AARC and meet the national practice standards for patient care Up to date coverage of current technology equipment Clinical Practice Guidelines CPGs CPR guidelines and CDC recommendations and mass casualty disaster management equips you with the most state of the art training for respiratory care Integration of case based questions within the lab activities helps you develop and promote your critical thinking abilities UNIQUE Coverage of polysomnography addresses clinical evaluation in this expanding specialty area Over 200 images provide visual guidance on how to perform procedures UNIQUE Reality Check boxes arm you with practical knowledge on real world application of various procedures UNIQUE Tip boxes supply you with helpful pointers for the clinical arena Glossary of terms offers quick reference to terms presented in the text **Kinanthropometry and Exercise Physiology Laboratory Manual** Roger Eston, Thomas Reilly, 2001 Kinanthropometrics is the study of the human body size and somatotypes and their quantitative relationships with exercise and nutrition This is the second edition of a successful text on the subject **Workbook and**

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