

EXPERIMENT - 1

AIM : To determine the resistance per cm of a given wire by plotting a graph of potential difference versus current and hence to determine the resistivity.

THEORY:

According to Ohm's law, "If physical conditions of a conductor such as temperature, pressure etc. remains constant, then electric current (I) flowing through the conductor is directly proportional to the potential difference (V) applied across the ends of the conductor,

$$\text{i.e. } I \propto V \Rightarrow V \propto I \text{ OR } V = IR$$

$$R = \frac{V}{I}$$

$R = \text{constant of proportionality}$

✓ called RESISTANCE OF THE CONDUCTOR.

R depends upon the material, temperature and dimensions of the conductor. To establish current voltage relationship, it is to be shown that ratio V/I remains constant for a given resistance. For a wire of uniform cross section, the resistance depends on the length ' l ' and area of cross section ' A '

$$R = \frac{\rho l}{A} \quad \rho = \text{resistance (specific) or resistivity of the material of wire.}$$

Teacher's Signature : _____

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America the UK Ireland and Africa presenting readers with new insights into how educators and students often negotiate deeply ingrained prejudices that are expressed in gendered terms The book reflects research that draws on a range of methodologies and both historical and contemporary education contexts are examined Drawing on historical research the book widens our understanding of gender issues in education and provides chapters on physical activity for girls in nineteenth century America and on the patriarchal imperative in mission education in Africa in the nineteenth century Turning to research on contemporary education settings the book explores the global phenomenon of the feminisation of teaching It also illustrates how teachers work in classrooms in which boys expressions of masculinities explicitly challenge school order and looks at the performance of both masculinities and femininities in several education contexts The book also includes absorbing work on the practices and processes that contribute to the gendering of digital technologies and it demonstrates ways in which parents unwittingly accept the gendered management of internet risk for their daughters This book was published as a special issue of Gender and Education *2012-2013 College Admissions Data Sourcebook Midwest Edition* , *2010-2011 College Admissions Data Sourcebook West Edition* ,2010-09 **Military Intelligence** ,1990

Instructional Development in Higher Education Cees Terlouw,1993 There is a growing need in Higher Education to re develop components in the curriculum in accordance with new views on the instructional tasks goals and methods These views concern the stress on problem solving the interest in students learning processes and the use of computer assisted instruction Instructional Development is viewed as the understanding improving and applying of methods for instructional problem analysis design construction implementation formative evaluation and summative evaluation Two positions can be taken the theoretical position which is concerned with producing theoretically sound and empirically valid prescriptions about procedures for instructional development and the practical position in which instructional development is actually applied in some situations resulting in an optimal working artifact This book advocates an integrative approach to instructional development in which on the one hand theory and practice are connected producing valid knowledge about procedures of instructional development and on the other hand activities in theory or practice result in products which have an independent value within the position chosen Theory and practice of instructional development are goals within a continuum on which different positions are possible The book discusses examples of some of these positions in the area of higher education **Inquiry and Problem Solving** ,1999 **Active Learning: Theoretical Perspectives, Empirical Studies and Design Profiles** Robert Cassidy,Elizabeth S. Charles,James D. Slotta,Nathaniel Lasry,2019-07-11 This book represents the emerging efforts of a growing international network of researchers and practitioners to promote the development and uptake of evidence based pedagogies in higher education at something a level approaching large scale impact By offering a communication venue that attracts and enhances much needed partnerships among practitioners and researchers in pedagogical innovation we aim to change the conversation and focus on how we work and learn together i e

extending the implementation and knowledge of co design methods In this first edition of our Research Topic on Active Learning we highlight two of the three types of publications we wish to promote First are studies aimed at understanding the pedagogical designs developed by practitioners in their own practices by bringing to bear the theoretical lenses developed and tested in the education research community These types of studies constitute the practice pull that we see as a necessary counterbalance to knowledge push in a more productive pedagogical innovation ecosystem based on research practitioner partnerships Second are studies empirically examining the implementations of evidence based designs in naturalistic settings and under naturalistic conditions Interestingly the teams conducting these studies are already exemplars of partnerships between researchers and practitioners who are uniquely positioned as in betweens straddling the two worlds As a result these publications represent both the rigours of research and the pragmatism of reflective practice In forthcoming editions we will add to this collection a third type of publication design profiles These will present practitioner developed pedagogical designs at varying levels of abstraction to be held to scrutiny amongst practitioners instructional designers and researchers alike We hope by bringing these types of studies together in an open access format that we may contribute to the development of new forms of practitioner researcher interactions that promote co design in pedagogical innovation

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