

**Introduction:**

The laboratory method used in the experiment is titration. Titration is a method used in measuring the amount of an analytical reagent necessary to react quantitatively with the sample. Acid-base titrations are important for counting concentrations of acids and bases. The point at which the equivalence point has been reached is called the theoretical end point. The titration is detected by some physical change, such as colour change, to indicate the end point. The indicator solution used in this experiment is phenolphthalein which is a colourless in acidic solution. When the reaction reached the endpoint, the solution becomes pale pink. One or two drops of phenolphthalein are sufficient for the titration. Addition of too much indicator will necessitate an indicator blank. The indicator should give a clear visual change in the liquid being titrated once the reaction between the standard solution and the substance is practically complete. The indicators can change colour because their ions have colours that are different from the undissociated molecule (Tan, 2010). The acid and base titrations used the Arrhenius theory. This theory stated that acid are substance which produce hydrogen ions in solution and bases are substance which produce hydroxide ion in solution. In titration, standard solutions are now usually expressed in terms of molarity, M.

Molarity, M = moles of solute/volume of solutions in litres

**Objective :**

One of the purposes of this experiment is to demonstrate the basic laboratory technique of titration towards the students. This experiment enables a hand-on practice done by the students themselves. Thus, the students will know how to handle the materials, apparatus and the correct way to conduct the experiment as well as being careful to avoid any experimental error. Moreover, this experiment also teach the students on the correct steps to calculate percentage of substance, molarity of solution and other calculations involve throughout the experiment.

**Apparatus :**

Burette with stand  
Pipette  
1-L volumetric flask with stopper  
250 mL Erlenmeyer flasks  
Retort stand with clamp

**Reagents :**

Sodium hydroxide pellets  
Potassium hydrogen phthalate (KHP)  
Phenolphthalein  
Unknown vinegar

# Sample Introduction Lab Report

**M Carnoy**



## **Sample Introduction Lab Report:**

How to Write a Lab Report Jerome N. Borowick, 2000 This guide outlines an effective methodology for writing the experimental laboratory report showing how skills that emphasize correct grammar and appropriate style must be adapted to writing reports with a purpose reports that emphasize structure and content to persuade the readers It first covers basic principles then explores each section of a report step by step with sample report sections and critiques The Laboratory Report Writing Process Principles of Clear Lab Report Writing Rules of Practice for Lab Report Writing Graphics The Title Page and Table of Contents The Beginning of the Report The Body of the Report The Ending of the Report A Sample Student Lab Report For anyone who must write lab reports as part of their professional responsibilities      **Successful Lab Reports** Christopher S. Lobban, MarLa Schefter, 1992-02-28 Shows science students how to write a clear and to the point laboratory report      **Laboratory Tests on Samples from Borrow Area D (appendix 2 Added), Keene Creek Dam, Rogue River Project, Oregon**, 1957      Writing in Biology Leslie Roldan, Mary Lou Pardue, 2016 At once sophisticated and practical Writing in Biology A Brief Guide advises students on composing research articles literature reviews oral presentations and other key biology genres The book gives careful attention to both the governing principles of audience purpose and argument and the ground rules for style visual design and sourcing Writing in Biology A Brief Guide is a part of a series of brief discipline specific writing guides from Oxford University Press designed for today's writing intensive college courses The series is edited by Thomas Deans University of Connecticut and Mya Poe Northeastern University      **Laboratory Studies for Final Design on Embankment Soils Proposed for Joes Valley Dam, Emery County Project, Utah** Willard Ellis, 1963      Introduction to Experimental Methods Terry W. Armstrong, 2023-07-31 Introduction to Experimental Methods succinctly explains fundamental engineering concepts in mechanics dynamics heat transfer and fluid dynamics From conceptualizing an engineering experiment to conducting a comprehensive lab this book enables students to work through the entire experimental design process Offering a complete overview of instruction for engineering lab methodology the book includes practical lab manuals for student use directly complementing the instruction Numerous worked examples and problems are presented along with several hands on experiments in individual lab manuals This book discusses how to write lab reports how to configure a variety of instruments and equipment and how to work through failures in experimentation Introduction to Experimental Methods is intended for senior undergraduate engineering students taking courses in Experimental Methods Instructors will be able to utilize a Solutions Manual for their course Features Provides an overview of experimental methods in mechanics dynamics heat transfer and fluid dynamics Covers design of experiments instruments and statistics Discusses SolidWorks and PASCO Capstone software Includes numerous end of chapter problems and worked problems Features a Solutions Manual for instructor use      **Laboratory Studies of Proposed Embankment and Lining Materials for Reservoirs No. 1 Through 5** C. A. Lowitz, 1960      **A Strategic Guide to Technical Communication -**

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**Borrow Area, Alamogordo Dam Rehabilitation, Carlsbad Project, New Mexico**, 1954 A Strategic Guide to Technical Communication - Second Edition (US) Heather Graves, Roger Graves, 2012-05-23 A Strategic Guide to Technical Communication incorporates useful and specific strategies for writers to enable them to create aesthetically appealing and usable technical documentation. These strategies have been developed and tested on a thousand students from a number of different disciplines over twelve years and three institutions. The second edition adds a chapter on business communication, reworks the discussion on technical style, and expands the information on visual communication and ethics into free standing chapters. The text is accompanied by a passcode protected website containing materials for instructors: PowerPoint lectures, lesson plans, sample student work, and helpful links. **Laboratory Tests on Embankment Materials Proposed for**

**Stanaker Dam, Vernal Unit, Central Utah Project**, 1958 **Laboratory Methods in Dynamic Electroanalysis** M. Teresa Fernández Abedul, 2019-10-13 Laboratory Methods in Dynamic Electroanalysis is a useful guide to introduce analytical chemists and scientists of related disciplines to the world of dynamic electroanalysis using simple and low cost methods. The trend toward decentralization of analysis has made this fascinating field one of the fastest growing branches of analytical chemistry. As electroanalytical devices have moved from conventional electrochemical cells (10-20 mL) to current cells (e.g. 5-50 mL) based on different materials such as paper or polymers that integrate thick or thin film electrodes, interesting strategies have emerged such as the combination of microfluidic cells and biosensing or nanostructuring of electrodes. This book provides detailed easy procedures for dynamic electroanalysis and covers the main trends in electrochemical cells and electrodes including microfluidic electrodes, electrochemical detection in microchip electrophoresis, nanostructuring of electrodes, development of bio-enzymatic immuno and DNA assays, paper-based electrodes, interdigitated array electrodes, multiplexed analysis, and combination with optics. Different strategies and techniques: amperometric, voltammetric, and impedimetric are presented in a didactic practice-based way, and a bibliography provides readers with additional sources of information. Provides easy-to-implement experiments using low-cost simple equipment. Includes laboratory methodologies that utilize both conventional designs and the latest trends in dynamic electroanalysis. Goes beyond the fundamentals covered in other books, focusing instead on practical applications of electroanalysis. **Laboratory Methods in Food Microbiology** W. F. Harrigan, 1998-09-28 Basic methods. Techniques for the microbiological examination

of foods Microbiological examination of specific foods Schemes for the identification of microorganisms

*Teaching Gradually* Kacie L. Armstrong, Lauren A. Genova, John Wyatt Greenlee, Derina S. Samuel, 2023-07-03 *Teaching Gradually* is a guide for anyone new to teaching and learning in higher education Written for graduate student instructors by graduate students with substantive teaching experience this resource is among the first of its kind to speak to graduate students as comrades in arms with voices from alongside them in the trenches rather than from far behind the lines Each author featured in this book was a graduate student at the time they wrote their contribution Consequently the following chapters give scope to a newer diverse generation of educators who are closer in experience and professional age to the book's intended audience The tools methods and ideas discussed here are ones that the authors have found most useful in teaching today's students Each chapter offers a variety of strategies for successful classroom practices that are often not explicitly covered in graduate training Overall this book consists of 42 chapters written by 51 authors who speak from a vast array of backgrounds and viewpoints and who represent a broad spectrum of experience spanning small large public and private institutions of higher education Each chapter offers targeted advice that speaks to the learning curve inherent to early career teaching while presenting tangible strategies that readers can leverage to address the dynamic professional landscape they inhabit The contributors' stories and reflections provide the context to build the reader's confidence in trying new approaches in their his or her teaching This book covers a wide range of topics designed to appeal to graduate student instructors across disciplines from those teaching discussion sections to those managing studio classes and lab sessions to those serving as the instructor of record for their own course Despite the medley of content two common threads run throughout this volume a strong focus on diversity and inclusion and an acknowledgment of the increasing shift to online teaching As a result of engaging with *Teaching Gradually* readers will be able to Identify best teaching practices to enhance student learning Develop a plan to implement these strategies in their teaching Expand their conception of contexts in which teaching and learning can take place Evaluate and refine their approaches to fostering inclusion in and out of the classroom Assess student learning and the efficacy of their own teaching practices Practice professional self reflection

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practice Interested readership includes policy makers academics educators researchers in pedagogy and learning theory school teachers learning Industry further education lecturers etc

**A Writer's Reference with Writing in the Disciplines** Diana Hacker,Nancy Sommers,2011-04-08 With Writing in the Disciplines Cover Assessing Students' Written Work Catherine Haines,2021-06-21 Assessment is one of the most powerful tools in teaching yet it is rarely measured in effort time and effectiveness and is often done alone against the clock and with minimal training This practical and realistic book is designed to help practitioners who wish to improve their impact in assessing a large and diverse range of students This second edition has been fully updated to include the views of students and recent developments in remote assessment plagiarism grading and feedback tools The second half of the book considers the main assessment methods with advice addressing common challenges It will help newer assessors to clarify their role and make the best use of time and technology gain confidence with assessment terms and processes give motivating feedback and support student writing tailor their approach and learn from practitioners within their discipline to extend their current range of solutions consider in more depth essays reports and projects practicals and fieldwork mathematically based learning and exams Both newly appointed and more experienced lecturers in further and higher education postgraduate students part time staff and graduate teaching assistants will find this an invaluable guide and reference tool

**Introduction to Modern Liquid Chromatography** Lloyd R. Snyder,Joseph J. Kirkland,John W. Dolan,2011-09-20 The latest edition of the authoritative reference to HPLC High performance liquid chromatography HPLC is today the leading technique for chemical analysis and related applications with an ability to separate analyze and or purify virtually any sample Snyder and Kirkland s Introduction to Modern Liquid Chromatography has long represented the premier reference to HPLC This Third Edition with John Dolan as added coauthor addresses important improvements in columns and equipment as well as major advances in our understanding of HPLC separation our ability to solve problems that were troublesome in the past and the application of HPLC for new kinds of samples This carefully considered Third Edition maintains the strengths of the previous edition while significantly modifying its organization in light of recent research and experience The text begins by introducing the reader to HPLC its use in relation to other modern separation techniques and its history then leads into such specific topics as The basis of HPLC separation and the general effects of different experimental conditions Equipment and detection The column the heart of the HPLC system Reversed phase separation normal phase chromatography gradient elution two dimensional separation and other techniques Computer simulation qualitative and quantitative analysis and method validation and quality control The separation of large molecules including both biological and synthetic polymers Chiral separations preparative separations and sample preparation Systematic development of HPLC separations new to this edition Troubleshooting tricks techniques and case studies for both equipment and chromatograms Designed to fulfill the needs of the full range of HPLC users from novices to experts Introduction to Modern Liquid Chromatography Third Edition offers the most up to date comprehensive

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