

Sample Lab Report

Abstract

Modern scientific papers typically begin with a short abstract summarizing the entire project. This sample lab report includes all the elements present in a modern scientific paper, organized in a fashion appropriate for introductory astronomy lab reports.

Introduction

This sample lab report illustrates a suitable form for writing a scientific paper. The introduction presents a basic statement of the problem to be solved. It may be to test a hypothesis, explore some phenomenon or test new experimental techniques. The present "hypothesis" is that it is possible to illustrate how to write a lab report. The report begins with a **Title** giving a succinct, one-line identification of the project, the **Author** or **Authors** actually responsible for the report and the author's **Affiliation**, which in this case will include the course and lab section. For Astronomy labs, each student must write his or her own report. The body of the report should include an **Introduction**, a description of the **Procedure (or Measurements or Observations)**, an **Analysis (or Results)** section, a section describing the **Error Analysis** and a **Discussion or Conclusions** section. There may also be an **Acknowledgements** paragraph, mentioning people who may have provided data or other help for the project. In most scientific papers there will be a list of **References** that may have been used in the preparation of the report. Finally, for Astronomy lab reports, the original **Data** pages should be attached to the report.

Procedure

The body of the report should begin with a systematic discussion of the project. The equipment should be described, and each observational or experimental or computational step should be discussed. A table or figure summarizing the data may be appropriate. It may not be necessary to include all of the data in this section, but the essential data used in the analysis section should be described completely. Figures or sketches of the instrumental setup or other illustrations are likely to be helpful.

After reading the procedure section, the reader should have a clear idea of what was actually done in the project. The goal of this section is to justify that the hypothesis described in the introduction has really been tested.

Analysis

Usually there will be a computational section or perhaps a discussion that brings together the pieces of the project to derive the final results. The results may be partly in the form

Example Abstract Lab Report

John D. Butler



Example Abstract Lab Report:

Lab Reports and Projects in Sport and Exercise Science Mike Price,2014-05-22 Lab Reports and Projects in Sport and Exercise Science A guide for students provides a comprehensive overview of what should be contained within each section of a scientific report and clearly explains how it should be presented Written in a friendly and engaging style it guides the reader through abstracts literature reviews methodology reporting discussions and referencing and contains a wealth of examples and practical advice on how to improve and refine your own writing From writing a first lab report to preparing a final year dissertation or postgraduate thesis sports and exercise science students at all levels will find this book a valuable resource in developing both skill and confidence in scientific communication Key features The layout of the book is designed to reflect that of a typical scientific report to help students plan their own projects Each chapter includes numerous examples exercises and activities to engage students and develop skills in each aspect of report writing Includes discussion of critical appraisal techniques to help students refine their research questions All data sets and illustrations used are drawn from the key disciplines in sport and exercise science including physiology psychology and biomechanics

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

Teaching Undergraduate Science Linda C. Hodges,2023-07-03 This book is written for all science or engineering faculty who have ever found themselves baffled and frustrated by their undergraduate students lack of engagement and learning The author an experienced scientist faculty member and educational consultant addresses these issues with the knowledge of faculty interests constraints and day to day concerns in mind Drawing from the research on learning she offers faculty new ways to think about the struggles their science students face She then provides a range of evidence based teaching strategies that can make the time faculty spend in the classroom more productive and satisfying Linda Hodges reviews the various learning problems endemic to teaching science explains why they are so common and

persistent and presents a digest of key ideas and strategies to address them based on the research she has undertaken into the literature on the cognitive sciences and education Recognizing that faculty have different views about teaching different comfort levels with alternative teaching approaches and are often pressed for time Linda Hodges takes these constraints into account by first offering a framework for thinking purposefully about course design and teaching choices and then providing a range of strategies to address very specific teaching barriers whether it be students motivation engagement in class ability to problem solve their reading comprehension or laboratory research or writing skills Except for the first and last chapters the other chapters in this book stand on their own i e can be read in any order and address a specific challenge students have in learning and doing science Each chapter summarizes the research explaining why students struggle and concludes by offering several teaching options categorized by how easy or difficult they are to implement Some for example can work in a large lecture class without a great expenditure of time others may require more preparation and a more adventurous approach to teaching Each strategy is accompanied by a table categorizing its likely impact how much time it will take in class or out and how difficult it will be to implement Like scientific research teaching works best when faculty start with a goal in mind plan an approach building on the literature use well tested methodologies and analyze results for future trials Linda Hodges message is that with such intentional thought and a bit of effort faculty can succeed in helping many more students gain exciting new skills and abilities whether those students are potential scientists or physicians or entrepreneurs Her book serves as a mini compendium of current research as well as a protocol manual a readily accessible guide to the literature the best practices known to date and a framework for thinking about teaching

Research In Psychology C. James Goodwin,2009-11-02 The sixth edition provides psychologists with insight into the essential nature of experimental psychology and a solid grounding in its methods and practices It has been updated to help them develop research ideas hypotheses and design studies In addition they ll find out how to carry them out analyze results and draw reasoned conclusions from them The chapters have also been updated with the important new developments in research methodologies and fascinating examples from recent studies to provide psychologists with the most up to date information in the field

Who's the New Kid in Chemistry? John D. Butler,2013-12-12 Who s the New Kid in Chemistry offers an unprecedented look at student engagement and teacher best practices through the eyes of an educational researcher enrolled as a public high school student Over the course of seventy nine consecutive days John D Butler participates in and observes Rhode Island 2013 Teacher of the Year Jessica M Waters s high school chemistry class documenting his experiences as they unfold Who s the New Kid in Chemistry is a compelling example of what can be accomplished when an educational researcher and teacher collaborate in the classroom This work includes a discussion on flexible homework assignments data driven instruction and thirty teacher best practices This book is an invaluable resource for teachers across all content areas masters and doctoral research method classes and future Teachers of the Year

Laboratory Investigations in Cell and

Molecular Biology Allyn Bregman,1996-02-02 This revised workbook lab text consists of 21 projects that can be executed with readily available materials a minimum of elaborate equipment and a reasonable amount of preparation time Early projects deal with biochemistry and cytochemistry the middle ones focus on organelles and their physiology and later activities explore more advanced molecular topics such as restriction mapping strategies New to this edition a concise section on statistics covering the mean standard deviation and standard error and a chapter designed to enable students to write up their work as a lab report *Writing for a Reader* Trudy Krisher,1995 **Conference Record** ,1992

Laboratory Investigations in Cell and Molecular Biology Allyn A. Bregman,2002 This revised workbook lab text consists of 21 projects that can be executed with readily available materials a minimum of elaborate equipment and a reasonable amount of preparation time Early projects deal with biochemistry and cytochemistry the middle ones focus on organelles and their physiology and later activities explore more advanced molecular topics such as restriction mapping strategies New to this edition a concise section on statistics covering the mean standard deviation and standard error and a chapter designed to enable students to write up their work as a lab report Annual Report of the Ohio State Board of Agriculture Ohio State Board of Agriculture,Ohio. STATE BOARD OF AGRICULTURE (1846-1913) 1ST-68TH 1846-1913,1877 *U.S. Government Research & Development Reports* ,1965 U.S. Government Research and Development Reports ,1965 **IPCC 1988**

Conference Record ,1988 **Bibliography of Scientific and Industrial Reports** ,1965-07 **The Holt Guide to Documentation and Writing in the Disciplines** Laurie G. Kirszner,Stephen R. Mandell,1989 *Advances in Control Education 2000* Ljubisa Vlačić,M. L. Brisk,2001 *Advances in Control Education 2000* saw the additional sponsorship of the Institute of Electrical and Electronic Engineers IEEE Control System Society and the Institution of Engineers Australia National Committee on Automation Control Instrumentation One hundred and three authors from 31 countries submitted their full scale manuscripts Each received at least three reviews overseen and coordinated by the International Program Committee members Twenty six members of the International Program Committee participated in the review process All reviews were anonymous In many cases after writing initial assessments reviewers were put in touch with the Program Committee Co Chairman to discuss a paper further by e mail Sixty papers were selected for full presentation Only those successfully presented at the conference are included in these proceedings Despite its small population Australia has always had a high level of international activity in control with Australian researchers contributing world leading academic work in control It has had a President of IFAC itself Professor Brian Anderson and many names are instantly recognisable at the forefront of developments in control theory It also has major industrial processes in minerals petrochemicals food and agricultural processing in manufacturing in transport and in communications that look to control for safety efficiency and reduced environmental impacts The education of engineers in the various aspects of control is thus of vital importance to Australia as it is to all developed and developing countries **Undergraduate Writing in Psychology** R. Eric

Landrum,2008 Students will find invaluable guidance on how to communicate with instructors on a professional level along with examples of checklists and grading rubrics instructors might use They will also benefit from a self quiz to enhance their knowledge of APA style as well as example reference formats and other quick reference style tools Biology Warren D. Dolphin,1991 *HRIS Abstracts* ,1974 **Proceedings** American Society for Engineering Education. Conference,1995

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