

# Experiment 1

## Introduction to 191 Lab

### 1. Introduction

In Physics 191 we will make extensive use of *Kaleidagraph* [*Kgraph*], a software package for graphing and data analysis, and *Excel*, for calculations. *Kgraph* is a substantial program but is nonetheless intuitive and extremely easy to use. Three major things that *Kgraph* does for us are:

1. Making high quality, easily customized graphs of your data.
2. Curve fitting, i.e., finding the parameters of a theoretical function that best describe your data. *Kgraph* provides estimates of the **statistical uncertainties of the fit parameters**, which are difficult to obtain with other commercial software (such as *Excel*).
3. Algebraic manipulation of numbers (though *Excel* is even more powerful)

### 2. Goals:

1. Familiarize yourself with basic calculations in Excel
2. Familiarize yourself with Kaleidagraph's plotting, calculation, and fitting options
3. Provide yourself with notes for using these capabilities for the rest of the term.
4. Have a first look at histograms and standard deviation
5. Have a first look at fitting and residuals
6. Have a first try at searching for flaws ("systematic errors") in data.

### 3. Background

3.1 In this first lab, we will learn how to use *Excel* and *Kgraph* on a PC equipped with the Windows XP operating system. Your lab report will contain printouts of the graphs that you generate. **The appendices to this lab writeup, and your notes made while performing this lab, will also serve as your guide for doing basic analysis operations.** You may write your report outside of class by hand or with Word. But you must **use your time carefully** in class to plot and analyze your data. Since you will be changing lab partners regularly, **take turns, and be sure each of you understands the software.**

For this laboratory exercise, you will analyze information from an actual mileage log kept for a Prius automobile. The log usually contains an entry for each tank of gas purchased (missing data were occasionally estimated). The Prius uses a hybrid engine system, with both a gasoline engine and electric motors. The gasoline engine ultimately provides all the power, but a large battery stores energy when the engine is not heavily loaded, or when the car is braking. The electric motor uses energy stored in the battery to provide extra power after a stop, when passing, when going in reverse, or even to allow the engine to be turned off temporarily. The battery and electric motor allows the gas engine to run nearer its optimum efficiency, part of why the Prius gets more miles per gallon than most cars.

# Experiment 1 Introduction To Lab Equipment 1 Synopsis

**Anthony Contento**



## **Experiment 1 Introduction To Lab Equipment 1 Synopsis:**

**The Complete Guide to Lab Technician Work: Overview and Interview Q&A** Chetan Singh, The Complete Guide to Lab Technician Work Overview and Interview Q A is an essential resource for individuals looking to start a career as a lab technician or for those already working in the field who want to expand their knowledge and skills This Lab Technician guidebook covers everything from lab safety and equipment usage to advanced laboratory techniques and emerging technologies In Chapter 1 readers will learn about the role of a lab technician the education and training required and the necessary skills and attributes for success Chapter 2 focuses on the importance of lab safety including understanding chemical hazards wearing personal protective equipment and emergency procedures Chapter 3 provides an in depth exploration of laboratory equipment including common instruments and their functions proper usage and maintenance and calibration and troubleshooting techniques In Chapter 4 readers will learn about laboratory techniques such as sample preparation laboratory measurements and analysis quality control and data recording and reporting Chapter 5 covers the basics of chemistry including atomic structure and the periodic table chemical bonding and reactions acids and bases and solutions and concentration calculations In Chapter 6 readers will learn about microbiology including microbial morphology and identification culturing and isolation techniques sterilization methods and antimicrobial susceptibility testing Chapter 7 focuses on hematology including blood cell morphology and function hematological disorders and disease states laboratory testing for blood disorders and blood transfusion protocols In Chapter 8 readers will learn about immunology including the immune system antibody structure and function immunoassay techniques and diagnostic tests for immune disorders Chapter 9 covers clinical chemistry including analytical methods for measuring chemical constituents in biological samples liver and kidney function tests and lipid and glucose metabolism testing In Chapter 10 readers will learn about laboratory management including workflow optimization quality management systems inventory management and personnel management and development Chapter 11 explores emerging technologies in laboratory science including advances in automation and robotics point of care testing precision medicine and personalized diagnostics and the impact of artificial intelligence and machine learning In Chapter 12 readers will find an extensive list of lab technician interview questions and answers to help them prepare for job interviews Finally in chapter 13 readers will learn about career paths and professional development opportunities for lab technicians including advancement opportunities continuing education and certification programs networking and professional organizations Overall The Complete Guide to Lab Technician Work Overview and Interview Q A provides readers with an exhaustive understanding of the role of a lab technician essential knowledge and skills and career development opportunities Whether you are just starting out or looking to advance your career this book is a must read for anyone in the field of laboratory science Fundamentals of Composites Manufacturing, Second Edition A. Brent Strong,2008 Describes advances key information case studies and examples that can broaden your knowledge of

composites materials and manufacturing methods This text deals with composites manufacturing methods providing tips for getting the best results that weigh the required material properties against cost and production efficiency An Instructor s Guide is also available *Laboratory Manual for Principles of General Chemistry* J. A. Beran,2013-12-12 A two term manual for General Chemistry This supplementary manual focuses on chemical principles and techniques The Laboratory Manual for Principles of General Chemistry tenth edition provides a broad scope of experiments coupled with a clear layout for ease of use The manual delivers material for two or three course terms It also assists chemistry students in knowing how to time various techniques in the lab environment The companion manual is organized into topic sections such as Chemical and Physical Properties Atomic and Molecular Structure Gases and Solutions *Open Science in Engineering* Michael E. Auer,Reinhard Langmann,Thrasyvoulos Tsiatsos,2023-12-31 The REV Conference is the annual conference of the International Association of Online Engineering IAOE together with the Global Online Laboratory Consortium GOLC REV 2023 is the 20th in a series of annual events concerning the area of online engineering cyber physical systems and Internet of things including remote engineering and virtual instrumentation In a globally connected world the interest in online collaboration teleworking remote services and other digital working environments is rapidly increasing In response to that the general objective of this conference is to contribute and discuss fundamentals applications and experiences in the field of online and remote engineering virtual instrumentation and other related new technologies including Cross reality Open Science Internet of Things and Industrial Internet of Things Industry 4 0 Cyber security M2M and smart objects

Laboratory Exercises and Techniques in Cellular Biology Anthony Contento,2012-10-26 The Contento Experimental Cell Biology Lab Book is a modular design that matches the topics discussed in Karp s textbook The manual itself consists of 30 experiments that coincide and complement each of the 18 chapters in the Karp text There are three possible designs of the lab book based on the instructor s needs These designs focus on either Techniques Concepts or Organelles The procedures of the 30 experiments remain standard and unchanged in all designs of the lab book Special Overview pages Discussion Questions and Datasheets bookend the procedures in order to create each of the possible textbook designs This gives instructors flexibility to create a lab book that suits their lecture course curriculum their experience and available equipment and supplies *Laser Experiments For Beginners* Richard N. Zare,1995-05-04 Laser Experiments for Beginners provides the perfect blueprint for those who wish to work with one of the most remarkable research tools of the twentieth century the laser Ideally suited for high school and university science teachers the experiments in this book require only a low cost low power red laser readily available for under 100 This book presents a series of hands on experiments that can be used for in class demonstrations or student activities Included are quick reference instructions to help the reader identify needed equipment follow recommended safety practices and select the desired experiment s each of which is rated according to conceptual and experimental difficulty Developed by renowned Stanford researcher Richard Zare in collaboration with

Bertrand Spencer Dwight Springer and Matthew Jacobson *Laser Experiments for Beginners* will introduce the student to state of the art laser research techniques It is designed to enhance existing courses in chemistry physics and biology

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*Scientific and Technical Aerospace Reports* ,1994 *EMBC 2004* IEEE Engineering in Medicine and Biology Society.

Conference,2004 Smart Service Systems, Operations Management, and Analytics Hui Yang,Robin Qiu,Weiwei Chen,2019-11-25 This volume offers state of the art research in service science and its related research education and practice areas It showcases recent developments in smart service systems operations management and analytics and their impact in complex service systems The papers included in this volume highlight emerging technology and applications in fields including healthcare energy finance information technology transportation sports logistics and public services Regardless of size and service a service organization is a service system Because of the socio technical nature of a service system a systems approach must be adopted to design develop and deliver services aimed at meeting end users both utilitarian and socio psychological needs Effective understanding of service and service systems often requires combining multiple methods to consider how interactions of people technology organizations and information create value under various conditions The papers in this volume present methods to approach such technical challenges in service science and are based on top papers from the 2019 INFORMS International Conference on Service Science **NASA Advanced**

**Refrigerator/freezer Technology Development Project Overview** ,1995 *New Directions in Tribology* Ian M. Hutchings,1997-03-13 This volume contains 35 present ations on the developments and advances made in tribology Subjects discussed include surface engineering rolling bearings thermal effects in tribo systems and environmental issues in tribology

**Laboratory Management and Safety in the Science Classroom** ,2001 Provides basic information about lab and field management and safety and includes reproducible worksheets and lessons for activities *Laboratory Manual to Accompany Chemistry in Context* American Chemical Society,2005-02 The 5th edition Laboratory Manual that accompanies Chemistry in Context is compiled and edited by Gail Steehler Roanoke College The experiments use microscale equipment wellplates and Beral type pipets as well as common materials Project type and cooperative collaborative laboratory experiments are included Additional experiments are available on the Online Learning Center as is the instructor s guide

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