

Chem 133 – Chemical Instrumentation

Spring 2010

Instructor: Brad Baker

Office: Sequoia Room 530

Phone: 278 – 7409

Email: bbaker@csus.edu

Office Hours: Wednesday, 10:00 to 11:30 in Sequoia 530

Thursday, 12:30 to 2:00 in Sequoia 530

and by appointment

Course website: <http://www.csus.edu/indiv/b/bakerb/Chem133/Index.htm>

Lecture Meeting Time: Tuesdays and Thursdays 2:30 to 3:20 pm

Lecture Location: Sequoia 450

Lab Meeting Times: Tuesdays and Thursdays, 3:30 to 6:20 pm

Lab Location: Sequoia 516

Midterm exams: March 18 during regularly scheduled class time, and May 20 during the scheduled final exam period (12:45 – 2:45).

Textbooks: Quantitative Chemical Analysis (seventh edition), by Daniel C. Harris (required)
Chemical Instrumentation, by Richard P. Wayne (optional)

Lab Manual: Chemical Instrumentation (required)

Furlough Dates: March 2 and March 25

Prerequisites: A C- or better in CHEM 031, CHEM 140B or CHEM 142, and ENGL 020.

Overview: Modern chemical instrumentation is ubiquitous in today's chemistry laboratory. The advantages of this instrumentation over traditional bench chemistry include improved selectivity and sensitivity, ease of use, and exceptionally fast analysis time. In this course we will investigate the theory behind modern chemical instrumentation, learn the major strengths and weaknesses of different instruments and practice using common analysis techniques in the laboratory.

Tentative Lecture Schedule (This could change):

Week of: January 25 – Basic electronics (Wayne, pp 1-13, 16-17)

February 1 – Electronics and measurements (Wayne, pp 20-25, 34-36)

February 8 – Transducers, Noise (Wayne, pp 39-46, 50-58)

February 15 – Noise reduction, Spectroscopy (Wayne, pp 61-68; Harris, Chapter 18)

February 22 – Molecular Spectroscopy (Harris, Chapter 20)

March 1 – Molecular Spectroscopy

March 8 – Atomic Spectroscopy (Harris, Chapter 21)

March 15 – Atomic Spectroscopy

March 22 – Mass spectroscopy (Harris, Chapter 22)

April 5 – Mass Spectroscopy, Nuclear magnetic spectroscopy (selected readings)

April 12 – Nuclear magnetic spectroscopy

April 19 – Chromatography (Harris, Chapter 23)

April 26 – Chromatography, Gas chromatography (Harris, Chapter 24)

Chem 133 Lab Manual

Olga I. Agapova



Chem 133 Lab Manual:

ChemDiscovery Lab Manual Olga I. Agapova,2002 *Laboratory Manual for Principles of General Chemistry* J. A. Beran,Mark Lassiter,2022-08-16 Laboratory Manual for Principles of General Chemistry 11th Edition covers two semesters of a general chemistry laboratory program The material focuses on the lab experiences that reinforce the concepts that not all experimental conclusions are the same and depend on identifying an appropriate experimental procedure selecting the proper apparatus employing the proper techniques systematically analyzing and interpreting the data and minimizing inherent variables As a result of good data a scientific and analytical conclusion is made which may or may not be right but is certainly consistent with the data Experiments write textbooks textbooks don t write experiments A student s scientific literacy grows when experiences and observations associated with the scientific method are encountered Further experimentation provides additional cause effect observations leading to an even better understanding of the experiment The 11th edition s experiments are informative and challenging while offering a solid foundation for technique safety and experimental procedure The reporting and analysis of the data and the pre and post lab questions focus on the intuitiveness of the experiment The experiments may accompany any general chemistry textbook and are compiled at the beginning of each curricular unit An Additional Notes column is included in each experiment s Report Sheet to provide a space for recording observations and data during the experiment Continued emphasis on handling data is supported by the Data Analysis section *Principles of Chemistry* Terrence J. Swift,1998-08-01 *The Ratio of Urinary Amino Acid Nitrogen to Creatinine as a Sensitive Test for Uranium Poisoning in the Rabbit* Harry Berke,1949 **Modern Methods for the Separation of Rarer Metal Ions** Johann Korkisch,2013-10-22 Modern Methods for the Separation of Rarer Metal Ions describes several separation methods of more than 50 elements This book is divided into 19 chapters that include separation methods involving the actinide elements rare earths and many rarer elements of the main and transition groups of the periodic table The introductory chapter discusses the principles of the separation techniques presented in this book The remaining chapters explore the application of specific separation methods such as ion exchange chromatography liquid liquid extraction distillation and coprecipitation The approach of each chapter is a presentation of separation principle of an element first followed by numerous examples of applications to the solution of practical problems encountered in separation chemistry Chapters 2 and 3 examine the separations involving the actinides and rare earth elements using ion exchange and liquid liquid extraction These are followed by chapters dealing with separations of other rarer elements which have been arranged according to their position in the periodic table These elements are Li Rb Cs Fr Be Ra Ga In Tl Ge Ag Au Ti Zr Hf V Nb Ta Mo W Tc Re and the platinum metals This book will be of great use to analytical chemists *Lab Manual Chemistry Class XII -by Dr. K. N. Sharma, Dr. Subhash Chandra Rastogi, Er. Meera Goyal (SBPD Publications)* Dr. K. N. Sharma,Dr. Subhash Chandra Rastogi,Er. Meera Goyal,2021-07-03 Highly Useful for Various Engineering and Medical Competitive

Examinations **Plant Biochemistry and Phytopharmaceutical Laboratory Manual** Mr. Rohit Manglik, 2024-07-26
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(U.S.). Office of Experimental Projects and Programs, 1974 **Discoveries in Academic Writing** Barbara Harris
Leonhard, 2002 Students learn how to develop and organize unified essays through exploration of the principles of academic
writing critical thinking skills rhetorical modes and peer review

Chem 133 Lab Manual Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has been evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Chem 133 Lab Manual**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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