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Innovative and self-directed, EXPERIMENTS IN GENERAL CHEMISTRY FEATURING MEASURENET, 2nd Edition prepares students for the laboratory setting by asking them multi-component questions, building their knowledge from previous experiments, and incorporating the

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innovative MeasureNet network data collection system into the manual. MeasureNet improves the laboratory experience by requiring smaller amounts of chemicals for experiments making the lab safer and more environmentally friendly and greatly increasing precision through its electronic data collection, analysis, and reduction features.

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Experiments in General Chemistry Featuring
MeasureNet Brooks/Cole Publishing Company

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A one-semester undergraduate or graduate-level laboratory course in the basics of electrochemistry, including cyclic voltammetry, pulse techniques, stripping voltammetry, quantitative analysis, EIS, and simulation of data.

Introductory Experiments on Biomolecules and their Interactions provides a novel approach to teaching biomolecules in the lab. While featuring the requisite fundamentals, it also captures the author's experience in industry, thus providing unique, up-to-date experiments which take the learning experience one-step further. The text parallels lectures using a

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standard biochemistry undergraduate text. Unlike most current lab manuals available in the market which simply emphasize an introduction of techniques, this lab manual provides students with opportunities to demonstrate and prove the knowledge and theories they learn from class. Features quantitative analysis of RNA degradation by RNase Contains problem sets, calculations, and references for each lab fully immersing students in the learning process Includes instruction on how to maintain a lab notebook and write a formal lab report Provides hands-on engagement with the four major

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types of biomolecules and “real-life and better
applied examples of molecular interactions

Communicating in Technology and Science

An Introduction to Teaching Chemistry from

Demonstration-Experiments

The Very Best Backyard Science Experiments You
Can Do Yourself

TheDadLab

Lessons in Chemistry

Descriptive Inorganic, Coordination, and Solid State
Chemistry

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MORNING AMERICA BOOK CLUB PICK • A must-read debut! Meet Elizabeth Zott: a “formidable, unapologetic and inspiring” (PARADE) scientist in 1960s California whose career takes a detour when she becomes the unlikely star of a beloved TV cooking show in this novel that is “irresistible, satisfying and full of fuel. It reminds you that change takes time and always requires heat” (The New York Times Book Review). “A unique heroine ... you'll find yourself wishing she wasn't fictional.” —Seattle Times Chemist Elizabeth Zott is not your average woman. In

fact, Elizabeth Zott would be the first to point out that there is no such thing as an average woman. But it's the early 1960s and her all-male team at Hastings Research Institute takes a very unscientific view of equality. Except for one: Calvin Evans; the lonely, brilliant, Nobel-prize nominated grudge-holder who falls in love with—of all things—her mind. True chemistry results. But like science, life is unpredictable. Which is why a few years later Elizabeth Zott finds herself not only a single mother, but the reluctant star of America's most beloved

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cooking show *Supper at Six*. Elizabeth's unusual approach to cooking ("combine one tablespoon acetic acid with a pinch of sodium chloride") proves revolutionary. But as her following grows, not everyone is happy. Because as it turns out, Elizabeth Zott isn't just teaching women to cook. She's daring them to change the status quo. Laugh-out-loud funny, shrewdly observant, and studded with a dazzling cast of supporting characters, *Lessons in Chemistry* is as original and vibrant as its protagonist. Each experiment in this manual was selected to

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match topics in your textbook and includes an introduction, a procedure, a page of pre-lab exercises about the concepts the lab illustrates, and a report form. Some have a scenario that places the experiment in a real-world context. For this edition, minor updates have been made to the lab manual to address some safety concerns. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Education in chemistry occurs best when the

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three components of the Trianglean experiment, a description of the experiment, and an explanation of the experimentare at the same place at the same time. Lectures in a main chemistry building on Mondays, Wednesdays, and Fridays and labs in another building on Tuesdays or Thursdays are not the same experience.

The definitive guide to the principles and practice of experimental organic chemistry - fully updated and now featuring more than 100 experiments The latest edition of this popular

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guide to experimental organic chemistry takes students from their first day in the laboratory right through to complex research procedures. All sections have been updated to reflect new techniques, equipment and technologies, and the text has been revised with an even sharper focus on practical skills and procedures. The first half of the book is devoted to safe laboratory practice as well as purification and analytical techniques; particularly spectroscopic analysis. The second half contains step-by-step experimental procedures, each one illustrating a

basic principle, or important reaction type. Tried and tested over almost three decades, over 100 validated experiments are graded according to their complexity and all are chosen to highlight important chemical transformations and to teach key experimental skills. New sections cover updated health and safety guidelines, additional spectroscopic techniques, electronic notebooks and record keeping, and techniques, such as semi-automated chromatography and enabling technologies such as the use of microwave and flow chemistry. New experiments include

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**transition metal-catalysed cross-coupling,
organocatalysis, asymmetric synthesis, flow
chemistry, and microwave-assisted synthesis.
Key aspects of this third edition include: Detailed
descriptions of the correct use of common
apparatus used in the organic laboratory
Outlines of practical skills that all chemistry
students must learn Highlights of aspects of
health and safety in the laboratory, both in the
first section and throughout the experimental
procedures Four new sections reflecting
advances in techniques and technologies, from**

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**electronic databases and information retrieval to
semi-automated chromatography More than 100
validated experiments of graded complexity from
introductory to research level A user-friendly
experiment directory An instructor manual and
PowerPoint slides of the figures in the book
available on a companion website A
comprehensive guide to contemporary organic
chemistry laboratory principles, procedures,
protocols, tools and techniques, Experimental
Organic Chemistry, Third Edition is both an
essential laboratory textbook for students of**

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**chemistry at all levels, and a handy bench
reference for experienced chemists.**

Laboratory Manual for Organic Chemistry

Metallurgical & Chemical Engineering

Experiments in General Chemistry

64 Daring Experiments for Young Scientists

Good Housekeeping Amazing Science

Catalogue

*LABORATORY EXPERIMENTS IN GENERAL CHEMISTRY
FEATURING MEASURENET is the first self-directed
laboratory manual to incorporate experiments
conducted with MeasureNet -- an innovative, network*

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data collection system that introduces students to "real world" chemistry. With the new use of MeasureNet, experiments are more precise, only requiring small quantities of chemicals, making the lab safer and environmentally friendly. This laboratory manual is designed to first prepare students for the laboratory setting through conceptual and technique experiments. Students then work to solve a multi-component question, utilizing what they learned in previous experiments. Through this approach, and with the help of MeasureNet's modern electronic data collection, analysis, and reduction, students truly prepare themselves for conducting chemistry in a professional

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setting!

The best backyard experiments for hands-on science learning *The Ultimate Book of Saturday Science* is Neil Downie's biggest and most astounding compendium yet of science experiments you can do in your own kitchen or backyard using common household items. It may be the only book that encourages hands-on science learning through the use of high-velocity, air-driven carrots. Downie, the undisputed maestro of Saturday science, here reveals important principles in physics, engineering, and chemistry through such marvels as the Helevator—a contraption that's half helicopter, half elevator—and the Rocket Railroad,

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which pumps propellant up from its own track. The Riddle of the Sands demonstrates why some granular materials form steep cones when poured while others collapse in an avalanche. The Sunbeam Exploder creates a combustible delivery system out of sunlight, while the Red Hot Memory experiment shows you how to store data as heat. Want to learn to tell time using a knife and some butter? There's a whole section devoted to exotic clocks and oscillators that teaches you how. The Ultimate Book of Saturday Science features more than seventy fun and astonishing experiments that range in difficulty from simple to more challenging. All of them are original, and all are

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guaranteed to work. Downie provides instructions for each one and explains the underlying science, and also presents experimental variations that readers will want to try.

BANNED: The Golden Book of Chemistry Experiments was a children's chemistry book written in the 1960s by Robert Brent and illustrated by Harry Lazarus, showing how to set up your own home laboratory and conduct over 200 experiments. The book is controversial, as many of the experiments contained in the book are now considered too dangerous for the general public. There are apparently only 126 copies of this book in libraries worldwide. Despite this, its known as one of

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the best DIY chemistry books every published. The book was a source of inspiration to David Hahn, nicknamed "the Radioactive Boy Scout" by the media, who tried to collect a sample of every chemical element and also built a model nuclear reactor (nuclear reactions however are not covered in this book), which led to the involvement of the authorities. On the other hand, it has also been the inspiration for many children who went on to get advanced degrees and productive chemical careers in industry or academia.

What could be more fun for kids than to have the kind of rip-roaring good time that harkens back to pre-video game, pre-computer days? Introducing 64 valuable

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science experiments that snap, crackle, pop, ooze, crash, boom, and stink! From Marshmallows on Steroids to Home-Made Lightning, the Sandwich Bag Bomb to Giant Air Cannon, The Book of Totally Irresponsible Science awakens kids' curiosity while demonstrating scientific principles like osmosis, air pressure, and Newton's Third Law of Motion. Kids will love performing these experiments, which use common household ingredients and equipment, in front of an audience or for themselves (though many require adult supervision). Entries are categorized into seven chapters according to scientific theme and are written in a simple-to-follow recipe format. each includes a

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detailed explanation of the scientific principle involved and a "Take Care!" section with special tips. The book's design and illustrations recall the pulp fiction look of science magazines from the days when space travel was still considered sci-fi, while the author's voice is wry and a bit conspiratorial. He assumes his readers are clever and never coddles them. Drop Mentos into a bottle of diet soda and stand back as a geyser erupts! Launch a rocket made from a film canister! Encase your little brother in a giant soap bubble! For young scientists—and the young at heart—this book is a blast. Literally.

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The Everything Kids' Science Experiments Book
Chemistry Simplified
Instructor's Guide

83 Hands-on S.T.E.A.M Experiments for Curious Kids!
**This clearly written, class-tested manual has long
given students hands-on experience covering all the
essential topics in general chemistry. Stand alone
experiments provide all the background introduction
necessary to work with any general chemistry text.
This revised edition offers new experiments and**

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**expanded information on applications to real world
situations.**

Each experiment in this manual was selected to match topics in your textbook and includes an introduction, a procedure, a page of pre-lab exercises about the concepts the lab illustrates, and a report form. Some have a scenario that places the experiment in a real-world context. For this edition, minor updates have been made to the lab manual to address some safety concerns.

Scores of talented and dedicated people serve the forensic science community, performing vitally

important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce

standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration.

Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an

essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

Oehlert's text is suitable for either a service course for non-statistics graduate students or for statistics majors. Unlike most texts for the one-term grad/upper level course on experimental design, Oehlert's new book offers a superb balance of both analysis and design, presenting three practical themes to students:

- when to use various designs**
- how to analyze the results**
- how to recognize various design options**

Also,

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**unlike other older texts, the book is fully oriented
toward the use of statistical software in analyzing
experiments.**

**The Book of Totally Irresponsible Science
Introductions to General, Inorganic, Organic, and
Physical Chemistry Featuring Their Leading Icons
Atomic Theory, Periodic Tables, Bond Diagrams, and
Thermodynamic Data in Donor-acceptor Form and
Teaching from Demonstration-experiments with
Student-apprentices
52 Family Friendly Experiments from the Pantry
Chemistry in the Movies**

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Basic Concepts of Chemistry and Laboratory Experiments for Basic Chemistry

Student Edition

Students will reach for the stars without having to leave their own backyards when performing astronomy experiments from Janice VanCleave's new crazy, kooky, and quirky collection. They will find the North Star, demonstrate the path of a satellite, and even build their own astronomical tools using household items.

Engaging analyses of experiment results will inspire readers to expand their thinking and to understand astronomy from practical, mathematical, and historical

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angles alike. Featuring color illustrations and safe, simple step-by-step instructions, students will love learning just how much fun science can be with these twenty-four astronomy experiments.

The first IUPAC Manual of Symbols and Terminology for Physicochemical Quantities and Units (the Green Book) of which this is the direct successor, was published in 1969, with the object of 'securing clarity and precision, and wider agreement in the use of symbols, by chemists in different countries, among physicists, chemists and engineers, and by editors of scientific journals'. Subsequent revisions have taken

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account of many developments in the field, culminating in the major extension and revision represented by the 1988 edition under the simplified title Quantities, Units and Symbols in Physical Chemistry. This 2007, Third Edition, is a further revision of the material which reflects the experience of the contributors with the previous editions. The book has been systematically brought up to date and new sections have been added strives to improve the exchange of scientific information among the readers in different disciplines and across different nations. In a rapidly expanding volume of scientific literature where each discipline has a tenden

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to retreat into its own jargon this book attempts to provide a readable compilation of widely used terms and symbols from many sources together with brief understandable definitions. This is the definitive guide for scientists and organizations working across a multitude of disciplines requiring internationally approved nomenclature.

ReAction! gives a scientist's and artist's response to the dark and bright sides of chemistry found in 140 films, most of them contemporary Hollywood feature films but also a few documentaries, shorts, silents, and international films. Even though there are some

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examples of screen chemistry between the actors and behind-the-scenes special effects, this book is really about the chemistry when it is part of the narrative. It's about the dualities of Dr. Jekyll vs. inventor chemists, the invisible man vs. forensic chemists, chemical weapons vs. classroom chemistry, chemical companies that knowingly pollute the environment vs. altruistic research chemists trying to make the world a better place to live, and, finally, about people who choose to experiment with mind-altering drugs vs. the drug discovery process. Little did Jekyll know when he brought the Hyde formula to his lips that his personali

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split would provide the central metaphor that would come to describe chemistry in the movies. This book explores the two movie faces of this supposedly neutral science. Watching films with chemical eyes, Dr. Jekyll is recast as a chemist engaged in psychopharmaceutical research but who becomes addicted to his own formula. He is balanced by the often wacky inventor chemists who make their discoveries by trial-and-error.

Concepts & Calculations in Analytical Chemistry: A Spreadsheet Approach offers a novel approach to learning the fundamentals of chemical equilibria using the flexibility and power of a spreadsheet program.

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Through a conceptual presentation of chemical principles, this text will allow the reader to produce and digest large assemblies of numerical data/calculations while still focusing on the chemistry. The chapters are arranged in a logical sequence, identifying almost every equilibrium scenario that an analytical chemist is likely to encounter. The spreadsheet calculations and graphics offer an excellent solution to otherwise time-consuming operations. Worked examples are included throughout the book, and student-tested problems are featured at the end of each chapter. Spreadsheet commands for QuattroPro, Quattro, and Lotus 1-2-3 are embedded in

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the text. Concepts & Calculations in Analytical Chemistry: A Spreadsheet Approach has been designed to serve both as a supplement to an undergraduate quantitative analysis course or as a text in a graduate level advanced analytical chemistry course. Professional chemists will also find this to be an excellent introduction to spreadsheet applications in the lab and a modern overview of analytical chemistry in a self-study format.

The Golden Book of Chemistry Experiments
ReAction!

Janice VanCleave's Crazy, Kooky, and Quirky

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Astronomy Experiments

The Big Book of Experiments

Boil Ice, Float Water, Measure Gravity-Challenge the
World Around You!

Kate the Chemist

*For freshman and sophomore level courses in
Professional Writing, Technical Writing and Science
and Technical Writing. Comprehensive and easy-to-
read, this award-winning text/reference for students
emphasizes practical writing. Its presentation and
applications offer simple guides that students can
easily emulate. It combines instruction, sample
papers, exercises and writing projects for manuals,*

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correspondence, research and publication articles, and oral technical communications plus coverage of Internet aids and website design.

The eleventh edition was carefully reviewed with an eye toward strengthening the content available in OWLv2, end-of-chapter questions, and updating the presentation. Nomenclature changes and the adoption of IUPAC periodic table conventions are highlights of the narrative revisions, along with changes to the discussion of d orbitals. In-text examples have been reformatted to facilitate learning, and the accompanying Interactive Examples in OWLv2 have been redesigned to better parallel the problem-solving approach in the

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narrative. New Capstone Problems have been added to a number of chapters. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This proven book introduces the basics of coordination, solid-state, and descriptive main-group chemistry in a uniquely accessible manner, featuring a less is more approach. Consistent with the less is more philosophy, the book does not review topics covered in general chemistry, but rather moves directly into topics central to inorganic chemistry. Written in a conversational prose style that is enjoyable and easy to understand, this book presents

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not only the basic theories and methods of inorganic chemistry (in three self-standing sections), but also a great deal of the history and applications of the discipline. This edition features new art, more diversified applications, and a new icon system. And to better help readers understand how the seemingly disparate topics of the periodical table connect, the book offers revised coverage of the author's Network of Interconnected Ideas on new full color endpapers, as well as on a convenient tear-out card. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Science has never been so easy--or so much fun!

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With The Everything Kids' Science Experiments Book, all you need to do is gather a few household items and you can recreate dozens of mind-blowing, kid-tested science experiments. High school science teacher Tom Robinson shows you how to expand your scientific horizons--from biology to chemistry to physics to outer space. You'll discover answers to questions like: Is it possible to blow up a balloon without actually blowing into it? What is inside coins? Can a magnet ever be "turned off"? Do toilets always flush in the same direction? Can a swimming pool be cleaned with just the breath of one person? You won't want to wait for a rainy day or your school's science fair to test these cool experiments for yourself!

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*50 Awesome Science Projects for Parents and Kids
A Path Forward*

Chemistry in the Laboratory

Strengthening Forensic Science in the United States

Experimental Organic Chemistry

*Concepts & Calculations in Analytical Chemistry,
Featuring the Use of Excel*

*The ultimate collection of DIY activities to
do with your kids to teach STEM basics and
beyond, from a wildly popular online dad.
With more than 3 million fans, TheDadLab has
become an online sensation, with weekly
videos of fun and easy science experiments
that parents can do with their kids. These*

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simple projects use materials found around the house, making it easier than ever for busy moms and dads to not only spend more quality time with their children but also get them interested in science and technology. In this mind-blowing book, Sergei Urban takes the challenge off-screen with fifty step-by-step projects, including some that he has never shared online before. Each activity will go beyond the videos, featuring detailed explanations to simplify scientific concepts for parents and help answer the hows and whys of their curious children. Learn how to:

- explore new fun ways to paint;
- make slime

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with only two ingredients; • defy gravity with a ping-pong ball; • produce your own electricity, and more! With TheDadLab, parents everywhere will have an easy solution to the dreaded "I'm bored" complaint right at their fingertips!

In the past two decades, microscale techniques have soared in popularity because these techniques minimize exposure to potentially dangerous chemicals in the lab, drastically cut the amount of chemical waste, lower costs, and reduce risks of chemical fires and explosions. The result is a safer and healthier laboratory environment. Now,

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*with Microscale General Chemistry Laboratory
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with Selected Macroscale Experiments, Second Edition, you can bring these techniques into your own chemistry lab. Thoroughly revised with updated experiments, the new Second Edition continues to offer a large variety of well-designed, easy-to-follow experiments, as well as thorough background information and an outstanding selection of questions and problems.

Packed with 25 incredible science experiments kids can do at home, Kate the Chemist introduces young scientists to the fascinating world of STEM Learn how to make

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slime, fake tattoos, edible snot, and more
With 25 kid-friendly science experiments, and
stunning full-color photographs, Kate the
Chemist's big book of experiments, shows kids
just how fun science can be. Experiments
include step-by-step instructions, an
ingredients list, supporting photos, a
messiness factor rating, and a note from Kate
about how each experiment works. Create
future engineers, scientists, and inventors,
and introduce your child to the world of STEM
with Kate the Chemist: The Big Book of
Experiments

Janice VanCleave once again ignites

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children's love for science in her all-new book of fun experiments—featuring a fresh format, new experiments, and updated content standards From everyone's favorite science teacher comes Janice VanCleave's Big Book of Science Experiments. This user-friendly book gets kids excited about science with lively experiments designed to spark imaginations and encourage science learning. Using a few handy supplies, you will have your students exploring the wonders of science in no time. Simple step-by-step instructions and color illustrations help you easily demonstrate the fundamental concepts of astronomy, biology,

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chemistry, and more. Children will delight in making their own slime and creating safe explosions as they learn important science skills and processes. Author Janice VanCleave passionately believes that all children can learn science. She has helped millions of students experience the magic and mystery of science with her time-tested, thoughtfully-designed experiments. This book offers both new and classic activities that cover the four dimensions of science—physical science, astronomy, Biology, and Earth Science—and provide a strong foundation in science education for students to build upon. An

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*ideal resource for both classroom and
homeschool environments, this engaging book:
Enables students to experience science
firsthand and discuss their observations
Offers low-prep experiments that require
simple, easily-obtained supplies Presents a
modern, full-color design that appeals to
students Includes new experiments,
activities, and lessons Correlates to
National Science Standards Janice VanCleave's
Big Book of Science Experiments is a must-
have book for the real-world classroom, as
well as for any parent seeking to teach
science to their children.*

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Chemistry 2e
A First Course in Design and Analysis of

Experiments

Introduction to Experimental Electrochemistry

*Introductory Experiments on Biomolecules and
their Interactions*

Experiments in Organic Chemistry

*Microscale General Chemistry Laboratory: with
Selected Macroscale Experiments, 2nd Edition*

DIVAt-home science provides an environment for
freedom, creativity and invention that is not always
possible in a school setting. In your own kitchen, it ' s
simple, inexpensive, and fun to whip up a number of

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amazing science experiments using everyday ingredients. Science can be as easy as baking. Hands-On Family: Kitchen Science Lab for Kids offers 52 fun science activities for families to do together. The experiments can be used as individual projects, for parties, or as educational activities groups. Kitchen Science Lab for Kids will tempt families to cook up some physics, chemistry and biology in their own kitchens and back yards. Many of the experiments are safe enough for toddlers and exciting enough for older kids, so families can discover the joy of science together.

LABORATORY INQUIRY IN CHEMISTRY, Second

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