

# Bookmark File Chemistry Batteries Pogil Answers Read Pdf Free

## **Managing Space Radiation Risk in the New Era of Space Exploration** Dec 21

2021 As part of the Vision for Space Exploration (VSE), NASA is planning for humans to revisit the Moon and someday go to Mars. An important consideration in this effort is protection against the exposure to space radiation. That radiation might result in severe long-term health consequences for astronauts on such missions if they are not adequately

shielded. To help with these concerns, NASA asked the NRC to further the understanding of the risks of space radiation, to evaluate radiation shielding requirements, and recommend a strategic plan for developing appropriate mitigation capabilities. This book presents an assessment of current knowledge of the radiation environment; an examination of the effects of radiation on biological systems and mission equipment; an analysis of

current plans for radiation protection; and a strategy for mitigating the risks to VSE astronauts.

**Active Learning in General Chemistry** Sep 17 2021 Active learning methods can provide significant advantages over traditional instructional practices, including improving student engagement and increasing student learning. Focusing on class-level interventions, the chapters in this book showcase evidence-

based techniques to encourage active learning in general chemistry. Contributing authors also include approaches to methods that encourage productive ways to engage inside and outside of classroom to support students' transition to university. Faculty and administrators considering more effective general chemistry courses will benefit from reading this volume.

**Biochemistry Education** Apr 12 2021 This volume brings together resources from the networks and communities that contribute to biochemistry education. Projects, authors, and practitioners from the American Chemical Society (ACS), American Society of

Biochemistry and Molecular Biology (ASBMB), and the Society for the Advancement of Biology Education Research (SABER) are included to facilitate cross-talk among these communities. Authors offer diverse perspectives on pedagogy, and chapters focus on topics such as the development of visual literacy, pedagogies and practices, and implementation.

**Nanotechnology in Catalysis** 3 Jan 28 2020 This volume continues the tradition formed in *Nanotechnology in Catalysis* 1 and 2. As with those books, this one is based upon an ACS symposium. Some of the most illustrious names in heterogeneous catalysis are

among the contributors. The book covers: Design, synthesis, and control of catalysts at nanoscale; understanding of catalytic reaction at nanometer scale; characterization of nanomaterials as catalysts; nanoparticle metal or metal oxides catalysts; nanomaterials as catalyst supports; new catalytic applications of nanomaterials.

*Introduction to Materials Science and Engineering* Mar 12 2021 *¿* For students taking the Materials Science course . This book is also suitable for professionals seeking a guided inquiry approach to materials science. *¿* This unique book is designed to serve as an active learning tool that uses carefully

selected information and guided inquiry questions. Guided inquiry helps readers reach true understanding of concepts as they develop greater ownership over the material presented. First, background information or data is presented. Then, concept invention questions lead the students to construct their own understanding of the fundamental concepts represented. Finally, application questions provide the reader with practice in solving problems using the concepts that they have derived from their own valid conclusions. *0133354733 / 9780133354737* Introduction to Materials Science and

Engineering: A Guided Inquiry with Mastering Engineering with Pearson eText -- Access Card Package Package consists of: *0132136422 / 9780132136426* Introduction to Materials Science and Engineering: A Guided Inquiry *0133411443 / 9780133411447* MasteringEngineering with Pearson eText -- Access Card -- Introduction to Materials Science *0133354733 / 9780133354737* Electrochemical Engineering Jun 26 2022 A Comprehensive Reference for Electrochemical Engineering Theory and Application From chemical and electronics manufacturing, to hybrid vehicles, energy storage, and beyond, electrochemical engineering

touches many industries—any many lives—every day. As energy conservation becomes of central importance, so too does the science that helps us reduce consumption, reduce waste, and lessen our impact on the planet. Electrochemical Engineering provides a reference for scientists and engineers working with electrochemical processes, and a rigorous, thorough text for graduate students and upper-division undergraduates. Merging theoretical concepts with widespread application, this book is designed to provide critical knowledge in a real-world context. Beginning with the fundamental principles underpinning the field, the

discussion moves into industrial and manufacturing processes that blend central ideas to provide an advanced understanding while explaining observable results. Fully-worked illustrations simplify complex processes, and end-of-chapter questions help reinforce essential knowledge. With in-depth coverage of both the practical and theoretical, this book is both a thorough introduction to and a useful reference for the field. Rigorous in depth, yet grounded in relevance, **Electrochemical Engineering: Introduces basic principles from the standpoint of practical application** Explores the kinetics of electrochemical

reactions with discussion on thermodynamics, reaction fundamentals, and transport Covers battery and fuel cell characteristics, mechanisms, and system design Delves into the design and mechanics of hybrid and electric vehicles, including regenerative braking, start-stop hybrids, and fuel cell systems Examines electrodeposition, redox-flow batteries, electrolysis, regenerative fuel cells, semiconductors, and other applications of electrochemical engineering principles Overlapping chemical engineering, chemistry, material science, mechanical engineering, and electrical engineering, electrochemical

engineering covers a diverse array of phenomena explained by some of the important scientific discoveries of our time. **Electrochemical Engineering** provides the critical understanding required to work effectively with these processes as they become increasingly central to global sustainability.

**Chemical Principles** Nov 07 2020

*Process Oriented Guided Inquiry Learning (POGIL)* Oct 07 2020 The volume begins with an overview of POGIL and a discussion of the science education reform context in which it was developed. Next, cognitive models that serve as the basis for POGIL are

presented, including Johnstone's Information Processing Model and a novel extension of it. Adoption, facilitation and implementation of POGIL are addressed next. Faculty who have made the transformation from a traditional approach to a POGIL student-centered approach discuss their motivations and implementation processes. Issues related to implementing POGIL in large classes are discussed and possible solutions are provided. Behaviors of a quality facilitator are presented and steps to create a facilitation plan are outlined. Succeeding chapters describe how POGIL

has been successfully implemented in diverse academic settings, including high school and college classrooms, with both science and non-science majors. The challenges for implementation of POGIL are presented, classroom practice is described, and topic selection is addressed. Successful POGIL instruction can incorporate a variety of instructional techniques. Tablet PC's have been used in a POGIL classroom to allow extensive communication between students and instructor. In a POGIL laboratory section, students work in groups to carry out experiments rather than merely verifying

previously taught principles. Instructors need to know if students are benefiting from POGIL practices. In the final chapters, assessment of student performance is discussed. The concept of a feedback loop, which can consist of self-analysis, student and peer assessments, and input from other instructors, and its importance in assessment is detailed. Data is provided on POGIL instruction in organic and general chemistry courses at several institutions. POGIL is shown to reduce attrition, improve student learning, and enhance process skills.  
*SemiConductor Wafer Bonding*  
Oct 26 2019 A one-stop

resource on all aspects of semiconductor wafer bonding for materials scientists and electrical engineers

Semiconductor Wafer Bonding addresses the entire spectrum of mainstream and likely future applications of wafer bonding. It examines all of the important issues surrounding this technology, including basic interactions between flat surfaces, the influence of particles, surface steps and cavities, surface preparation and room-temperature wafer bonding, thermal treatment of bonded wafer pairs, and much more. This unique, one-stop resource consolidates information previously available only by time-

consuming searches through technical journals, proceedings, and book chapters for more than 1,000 published articles on wafer bonding. It covers all materials used for wafer bonding—including silicon, III-V compounds, fused and crystalline quartz, glass, silicon carbide, sapphire, ferroelectrics, and many others. For materials scientists and electrical engineers who need to exploit the potential of this flourishing technology, Semiconductor Wafer Bonding is a convenient one-stop resource for answers to many common questions. It is also an excellent text/reference for graduate students eager to

learn about this interdisciplinary field, which spans surface chemistry, solid-state physics, materials science, and electrical engineering.

**Science Literacy** Nov 27 2019

Science is a way of knowing about the world. At once a process, a product, and an institution, science enables people to both engage in the construction of new knowledge as well as use information to achieve desired ends. Access to science—whether using knowledge or creating it—necessitates some level of familiarity with the enterprise and practice of science: we refer to this as science literacy. Science literacy is desirable not

only for individuals, but also for the health and well-being of communities and society. More than just basic knowledge of science facts, contemporary definitions of science literacy have expanded to include understandings of scientific processes and practices, familiarity with how science and scientists work, a capacity to weigh and evaluate the products of science, and an ability to engage in civic decisions about the value of science. Although science literacy has traditionally been seen as the responsibility of individuals, individuals are nested within communities that are nested within societies—and, as a result,

individual science literacy is limited or enhanced by the circumstances of that nesting. Science Literacy studies the role of science literacy in public support of science. This report synthesizes the available research literature on science literacy, makes recommendations on the need to improve the understanding of science and scientific research in the United States, and considers the relationship between scientific literacy and support for and use of science and research. [Safer Makerspaces, Fab Labs, and STEM Labs](#) Dec 29 2019 Safer hands-on STEM is essential for every instructor and student. Read the latest

information about how to design and maintain safer makerspaces, Fab Labs and STEM labs in both formal and informal educational settings. This book is easy to read and provides practical information with examples for instructors and administrators. If your community or school system is looking to design or modify a facility to engage students in safer hands-on STEM activities then this book is a must read! This book covers important information, such as: Defining makerspaces, Fab Labs and STEM labs and describing their benefits for student learning. · Explaining federal safety standards, negligence, tort law, and duty

of care in terms instructors can understand.· Methods for safer professional practices and teaching strategies.· Examples of successful STEM education programs and collaborative approaches for teaching STEM more safely.· Safety Controls (engineering controls, administrative controls, personal protective equipment, maintenance of controls).· Addressing general safety, biological and biotechnology, chemical, and physical hazards.· How to deal with various emergency situations.· Planning and design considerations for a safer makerspace, Fab Lab and STEM lab.· Recommended room sizes and equipment for

makerspaces, Fab Labs and STEM labs.· Example makerspace, Fab Lab and STEM lab floor plans.· Descriptions and pictures of exemplar makerspaces, Fab Labs and STEM labs.· Special section answering frequently asked safety questions!  
General Chemistry Feb 08 2021 "General Chemistry: Atoms First," Second Edition starts from the building blocks of chemistry, the atom, allowing the authors to tell a cohesive story that progresses logically through molecules and compounds to help students intuitively follow complex concepts more logically. This unified thread of ideas helps students build a better

foundation and ultimately gain a deeper understanding of chemical concepts. Students can more easily understand the microscopic-to-macroscopic connections between unobservable atoms and the observable behavior of matter in daily life, and are brought immediately into real chemistry instead of being forced to memorize facts. Reflecting a true atoms first perspective, the Second Edition features experienced atoms-first authors, incorporates recommendations from a panel of atoms-first experts, and follows historical beliefs in teaching chemistry concepts based and real experimental data first. This approach



distinguishes this text in the market based whereby other authors teach theory first, followed by experimental data.

**Series-parallel Circuits** Dec 09 2020

**Chemistry 2e** Aug 29 2022

**More Teacher Friendly**

**Chemistry Labs and**

**Activities** May 02 2020 Do you want to do more labs and activities but have little time and resources? Are you frustrated with traditional labs that are difficult for the average student to understand, time consuming to grade and stressful to complete in fifty minutes or less? Teacher Friendly: . Minimal safety concerns . Minutes in preparation time . Ready to use

lab sheets . Quick to copy, Easy to grade . Less lecture and more student interaction .

Make-up lab sheets for absent students . Low cost chemicals and materials . Low chemical waste . Teacher notes for before, during and after the lab . Teacher follow-up ideas . Step

by step lab set-up notes . Easily created as a kit and stored for years to come Student Friendly: . Easy to read and understand . Background serves as lecture notes .

Directly related to class work . Appearance promotes interest and confidence General

Format: . Student lab sheet . Student lab sheet with answers in italics . Student lab quiz . Student lab make-up sheet The

Benefits: . Increases student engagement . Creates a hands-on learning environment . Allows teacher to build stronger student relationships during the lab . Replaces a lecture with a lab . Provides foundation for follow-up inquiry and problem based labs Teacher Friendly Chemistry allows the busy chemistry teacher, with a small school budget, the ability to provide many hands-on experiences in the classroom without sacrificing valuable personal time.

**College Physics for AP®**

**Courses** Jul 28 2022 The

College Physics for AP(R) Courses text is designed to engage students in their

exploration of physics and help them apply these concepts to the Advanced Placement(R) test. This book is Learning List-approved for AP(R) Physics courses. The text and images in this book are grayscale.

*Clickers in Action* Nov 19 2021  
An instructor-oriented resource providing information on implementing clickers in organic chemistry courses. Part I gives instructors information on how to choose and manage a CRS system, develop effective questions, and integrate the questions into their courses. Part II contains 140 class-tested, lecture-ready questions. Most questions include histograms that show actual student response, generated in

large classes with 200 300 students over multiple semesters. Each question also includes insights and suggestions for implementation."

*Chemistry* Sep 05 2020  
Contains discussion, illustrations, and exercises aimed at overcoming common misconceptions; emphasizes on models prevails; and covers topics such as: chemical foundations, types of chemical reactions and solution stoichiometry, electrochemistry, and organic and biological molecules.

**Reconceptualizing STEM Education** Jun 14 2021  
Reconceptualizing STEM Education explores and maps

out research and development ideas and issues around five central practice themes: Systems Thinking; Model-Based Reasoning; Quantitative Reasoning; Equity, Epistemic, and Ethical Outcomes; and STEM Communication and Outreach. These themes are aligned with the comprehensive agenda for the reform of science and engineering education set out by the 2015 PISA Framework, the US Next Generation Science Standards and the US National Research Council's A Framework for K-12 Science Education. The new practice-focused agenda has implications for the redesign of preK-12 education for

alignment of curriculum-instruction-assessment; STEM teacher education and professional development; postsecondary, further, and graduate studies; and out-of-school informal education. In each section, experts set out powerful ideas followed by two eminent discussant responses that both respond to and provoke additional ideas from the lead papers. In the associated website highly distinguished, nationally recognized STEM education scholars and policymakers engage in deep conversations and considerations addressing core practices that guide STEM education.

### **Understanding by Design**

Sep 25 2019 Presents a multifaceted model of understanding, which is based on the premise that people can demonstrate understanding in a variety of ways.

*POGIL Activities for AP Biology*

Jan 22 2022

*Background to Modern Science*

Jul 16 2021 Originally published in 1938, this book contains ten lectures on subjects such as parasitology, radioactivity, astronomy and evolution theory.

### **Overcoming Students' Misconceptions in Science**

Oct 19 2021 This book discusses the importance of identifying and addressing misconceptions for the successful teaching and

learning of science across all levels of science education from elementary school to high school. It suggests teaching approaches based on research data to address students' common misconceptions. Detailed descriptions of how these instructional approaches can be incorporated into teaching and learning science are also included. The science education literature extensively documents the findings of studies about students' misconceptions or alternative conceptions about various science concepts. Furthermore, some of the studies involve systematic approaches to not only creating but also implementing instructional

programs to reduce the incidence of these misconceptions among high school science students. These studies, however, are largely unavailable to classroom practitioners, partly because they are usually found in various science education journals that teachers have no time to refer to or are not readily available to them. In response, this book offers an essential and easily accessible guide.

**Affective Dimensions in Chemistry Education** Aug 05 2020 This is a unique resource for those wishing to address the affective domain as they research and solve problems in chemistry education.

Contributions by world-leading experts cover both fundamental considerations and practical case studies. This work fills a gap in the literature of chemistry education, which so far has focussed mainly on the cognitive domain. The affective domain refers to feelings-based constructs such as attitudes, values, beliefs, opinions, emotions, interests, motivation, and a degree of acceptance or rejection. It can affect students' interest in science topics and their motivation to persevere in learning science concepts.

BIO2010 Jul 04 2020 Biological sciences have been revolutionized, not only in the way research is

conducted"with the introduction of techniques such as recombinant DNA and digital technology"but also in how research findings are communicated among professionals and to the public. Yet, the undergraduate programs that train biology researchers remain much the same as they were before these fundamental changes came on the scene. This new volume provides a blueprint for bringing undergraduate biology education up to the speed of today's research fast track. It includes recommendations for teaching the next generation of life science investigators, through: Building a strong

interdisciplinary curriculum that includes physical science, information technology, and mathematics. Eliminating the administrative and financial barriers to cross-departmental collaboration. Evaluating the impact of medical college admissions testing on undergraduate biology education. Creating early opportunities for independent research. Designing meaningful laboratory experiences into the curriculum. The committee presents a dozen brief case studies of exemplary programs at leading institutions and lists many resources for biology educators. This volume will be important to biology faculty,

administrators, practitioners, professional societies, research and education funders, and the biotechnology industry.

*Chemistry For Changing Times*  
Sep 29 2022 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. The book that defined the liberal arts chemistry course, *Chemistry for Changing Times* remains the most visually appealing and readable introduction on the subject. The Thirteenth Edition increases its focus on student engagement - with revised "Have You Ever Wondered?" questions, new Learning

Objectives in each chapter linked to end of chapter problems, and new Green Chemistry content, closely integrated with the text. Abundant applications and examples fill each chapter, and material is updated throughout to mirror the latest scientific developments in a fast-changing world. Compelling chapter opening photos, a focus on Green Chemistry, and the "It DOES Matter" features highlight current events and enable students to relate to the book more readily. This package contains: *Chemistry for Changing Times, Thirteenth Edition*  
**Conceptual Chemistry** Jan 10 2021

POGIL Activities for High School Biology Mar 24 2022

**Chemistry 2e** Dec 01 2022

*Electricity & Batteries* May 26

2022 What would we do without electricity? There would be no refrigerators, televisions, or computers-not even light bulbs. Read on and find out how electricity is generated and how we can use it. Book jacket.

*Bratva Vow* Jun 02 2020

Monsters aren't born, they are created. Katya. After spending years in hospitals, I can finally have a life. Then my mom abandons me to the care of the most breathtaking man I've ever seen. He's like the embodiment of Death, a Greek tragedy waiting to unfold. Can I

break through the darkness that has a hold on him? Kristoff. My soul is black as tar. I'm a cold-hearted killer, the leader of my own Bratva. What mother in her right mind would leave a teenage daughter on my doorstep? A desperate one who's willing to make a deal with the devil. Note: This is the free prequel novella to the Bratva Royalty duet. Trigger warning: this book contains some traumas and scenes of violence. For fans of Natasha Knight, Julia Sykes, CD Reiss, Aleatha Romig, Skye Warren, Anna Zaires, Renee Rose, Carrie Ann Ryan, Penelope Ward, Lauren Blakely, Hannah Hill, Meghan March, Katee Robert. Topics: adult romance,

alpha male, romantic suspense, romance series, bad boy romance, emotional read, contemporary romance, free romance books, mafia romance, novels for free romance, series books free, revenge romance, age gap romance, steamy romance books free.

*Flip Your Classroom* Oct 31

2022 Learn what a flipped classroom is and why it works, and get the information you need to flip a classroom. You'll also learn the flipped mastery model, where students learn at their own pace, furthering opportunities for personalized education. This simple concept is easily replicable in any classroom, doesn't cost much to implement, and helps foster

self-directed learning. Once you flip, you won't want to go back!

### **Nontraditional Careers for Chemists** Feb 29 2020

"Contrary to what some people think, an education and background in chemistry prepares you for much more than just a laboratory career. The broad science education, logical and analytical thinking, research methods, and other professional skills are of value to a wide variety of employers, and are essential for a plethora of positions. In addition, those who are interested in chemistry tend to have some similar personality characteristics, which lead to success in certain types of positions. Realizing

these two things opens up a world of possibilities for the professional chemist, and allows the selection of a career path that truly is the best fit for your own personal skills, abilities, and interests." "Each chapter in this book provides background information on a nontraditional field and a variety of positions within that field, including typical tasks, education or training requirements, and personal characteristics that contribute to a successful career. Each chapter also contains detailed profiles of several chemists who have achieved success and personal satisfaction in various types of positions in that field. These interesting and varied

career histories explain how these chemists got where they are, details what motivates them, and gives advice for others considering the same path, in both the short and long term." "Specific career fields profiled include communication, chemical information, patents, sales and marketing, business development, regulatory affairs, public policy, safety, human resources, and computers, among others. Along the way you will learn how to seek out and evaluate new career options, so even if none of the careers profiled is right for you, you can continue the exploration on your own until you find the one that is."--

back cover.

## **Knowing What Students**

**Know** Mar 31 2020 Education is a hot topic. From the stage of presidential debates to tonight's dinner table, it is an issue that most Americans are deeply concerned about. While there are many strategies for improving the educational process, we need a way to find out what works and what doesn't work as well.

Educational assessment seeks to determine just how well students are learning and is an integral part of our quest for improved education. The nation is pinning greater expectations on educational assessment than ever before. We look to these assessment tools when

documenting whether students and institutions are truly meeting education goals. But we must stop and ask a crucial question: What kind of assessment is most effective? At a time when traditional testing is subject to increasing criticism, research suggests that new, exciting approaches to assessment may be on the horizon. Advances in the sciences of how people learn and how to measure such learning offer the hope of developing new kinds of assessments-assessments that help students succeed in school by making as clear as possible the nature of their accomplishments and the progress of their learning.

Knowing What Students Know essentially explains how expanding knowledge in the scientific fields of human learning and educational measurement can form the foundations of an improved approach to assessment. These advances suggest ways that the targets of assessment-what students know and how well they know it-as well as the methods used to make inferences about student learning can be made more valid and instructionally useful. Principles for designing and using these new kinds of assessments are presented, and examples are used to illustrate the principles. Implications for policy,



practice, and research are also explored. With the promise of a productive research-based approach to assessment of student learning, Knowing What Students Know will be important to education administrators, assessment designers, teachers and teacher educators, and education advocates.

**ChemActivities and LabActivities for General Education Chemistry** Apr 24 2022

**POGIL Activities for High School Chemistry** Jan 02 2023

*The Electron: Its Isolation and Measurement and the Determination of Some of Its Properties* Aug 17 2021 This

work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a

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TIPERs May 14 2021 TIPERs: Sensemaking Tasks for Introductory Physics gives introductory physics students the type of practice they need to promote a conceptual

understanding of problem solving. This supplementary text helps students to connect the physical rules of the universe with the mathematical tools used to express them. The exercises in this workbook are intended to promote sensemaking. The various formats of the questions are difficult to solve just by using physics equations as formulas. Students will need to develop a solid qualitative understanding of the concepts, principles, and relationships in physics. In addition, they will have to decide what is relevant and what isn't, which equations apply and which don't, and what the equations tell one about physical situations. The

goal is that when students are given a physics problem where they are asked solve for an unknown quantity, they will understand the physics of the problem in addition to finding the answer.

**Reaching Students** Feb 20 2022 The undergraduate years are a turning point in producing scientifically literate citizens and future scientists and engineers. Evidence from research about how students learn science and engineering shows that teaching strategies that motivate and engage students will improve their learning. So how do students best learn science and engineering? Are there ways of thinking that hinder or help

their learning process? Which teaching strategies are most effective in developing their knowledge and skills? And how can practitioners apply these strategies to their own courses or suggest new approaches within their departments or institutions? "Reaching Students" strives to answer these questions. "Reaching Students" presents the best thinking to date on teaching and learning undergraduate science and engineering. Focusing on the disciplines of astronomy, biology, chemistry, engineering, geosciences, and physics, this book is an introduction to strategies to try in your classroom or institution. Concrete examples

and case studies illustrate how experienced instructors and leaders have applied evidence-based approaches to address student needs, encouraged the use of effective techniques within a department or an institution, and addressed the challenges that arose along the way. The research-based strategies in "Reaching Students" can be adopted or adapted by instructors and leaders in all types of public or private higher education

institutions. They are designed to work in introductory and upper-level courses, small and large classes, lectures and labs, and courses for majors and non-majors. And these approaches are feasible for practitioners of all experience levels who are open to incorporating ideas from research and reflecting on their teaching practices. This book is an essential resource for enriching instruction and better educating students.

**Higher Education and Working Life** Aug 24 2019

This book provides a comprehensive discussion of the relationship between higher education & working life from three different perspectives: society, higher education & the world of work. The chapters discuss the interplay between education & work both from the societal point of view & from the pedagogical perspective.  
[estore.fdl.com.bd](http://estore.fdl.com.bd)