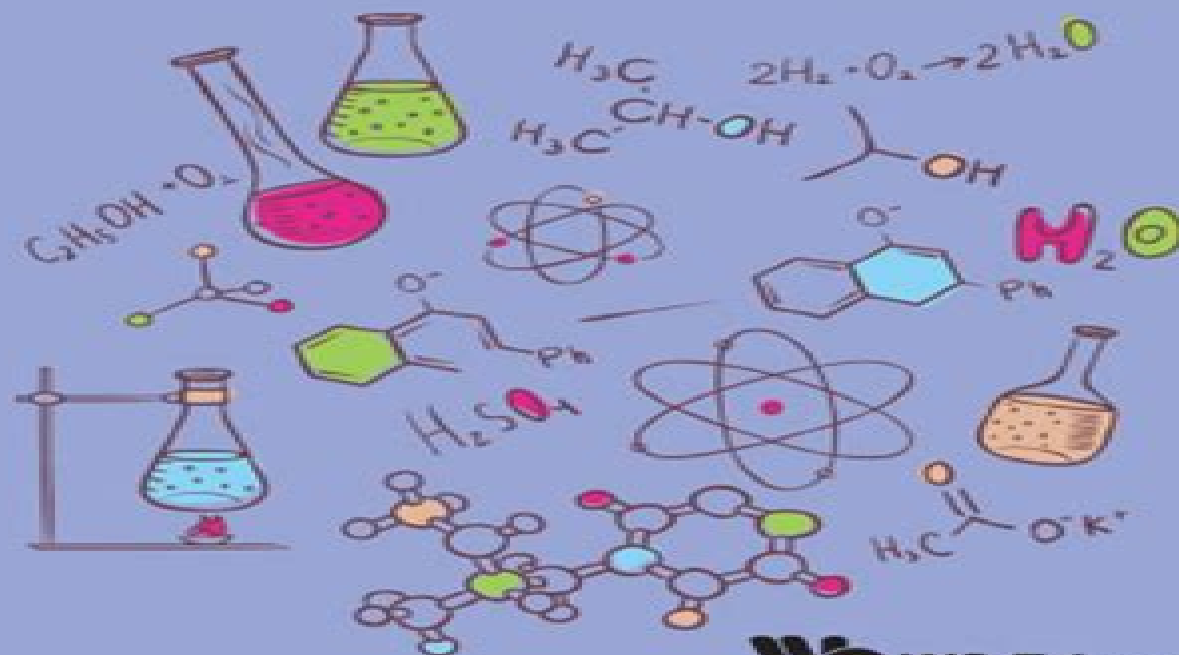


Revised Edition

# UNDERSTANDING BASIC CHEMISTRY THROUGH PROBLEM SOLVING

THE LEARNER'S APPROACH

**KIM SENG CHAN**  
**JEANNE TAN**



# Basic Chemistry A Problem Solving Approach

**Kim Seng Chan, Jeanne Tan**



### **Basic Chemistry A Problem Solving Approach:**

*Basic Chemistry* Julien Gendell, 1993-01-01     *A Problem-Solving Approach to Aquatic Chemistry* James N. Jensen, 2023-01-05

*A Problem Solving Approach to Aquatic Chemistry* Enables civil and environmental engineers to understand the theory and application of aquatic equilibrium chemistry The second edition of *A Problem Solving Approach to Aquatic Chemistry* provides a detailed introduction to aquatic equilibrium chemistry calculation methods for systems at equilibrium applications of aquatic chemistry and chemical kinetics The text directly addresses two required ABET program outcomes in environmental engineering chemistry including stoichiometry equilibrium and kinetics and material and energy balances fate and transport of substances in and between air water and soil phases The book is very student centered with each chapter beginning with an introduction and ending with a summary that reviews the chapter's main points To aid in reader comprehension important terms are defined in context and key ideas are summarized Many thought provoking discussion questions worked examples and end of chapter problems are also included Each part of the text begins with a case study a portion of which is addressed in each subsequent chapter illustrating the principles of that chapter In addition each chapter has an Historical Note exploring connections with the people and cultures connected to topics in the text *A Problem Solving Approach to Aquatic Chemistry* includes Fundamental concepts such as concentration units thermodynamic basis of equilibrium and manipulating equilibria Solutions of chemical equilibrium problems including setting up the problems and algebraic graphical and computer solution techniques Acid base equilibria including the concepts of acids and bases titrations and alkalinity and acidity Complexation including metals ligands equilibrium calculations with complexes and applications of complexation chemistry Oxidation reduction equilibria including equilibrium calculations graphical approaches and applications Gas liquid and solid liquid equilibrium with expanded coverage of the effects of global climate change Other topics including chemical kinetics of aquatic systems surface chemistry and integrative case studies For advanced senior undergraduates and first year graduate students in environmental engineering courses *A Problem Solving Approach to Aquatic Chemistry* serves as an invaluable learning resource on the topic with a variety of helpful learning elements included throughout to ensure information retention and the ability to apply covered concepts in practical settings

*Understanding Basic Chemistry Through Problem Solving: The Learner's Approach* Kim Seng Chan, Jeanne Tan, 2014-11-14

Written for students taking either the University of Cambridge O level examinations or the GCSE examinations this guidebook covers essential topics and concepts under stipulated chemistry syllabi The topics are explored through an explanatory and inquiry based approach They are interrelated and easy to understand with succinct explanations examples being included especially on areas that students frequently find difficult Topics address the whys and hows behind key concepts to be mastered so that the concepts are made understandable and intuitive for students The focus is on conceptual learning so as to equip students with knowledge for critical learning and problem solving The authors have also

retained the popular discourse feature from their previous four books Understanding Advanced Physical Inorganic Chemistry Understanding Advanced Organic and Analytical Chemistry Understanding Advanced Chemistry Through Problem Solving and Understanding Basic Chemistry to help the learners better understand and see for themselves how the concepts should be applied during problems solving Based on the Socratic Method questions are implanted throughout the book to help facilitate the reader's development in forming logical conclusions of concepts and the way they are being applied to explain the problems In addition the authors have also included important summaries and concept maps to help the learners to recall remember reinforce and apply the fundamental chemical concepts in a simple way Through their many years of teaching experiences the authors have acquired a sound awareness of common students' misconceptions which are relayed through the questions and thus help to reinforce concepts learnt This book is essential and useful to help students adequately prepare for the high stake examinations

**Atomic Structure and Chemical Bond: A Problem Solving Approach** Manas Chandra, 2019-05-03 particle in a box and to the hydrogen atom quantization of energy levels uncertainty principle probability distribution functions angular and radial wave functions nodal properties sectional and charge cloud representation of atomic orbitals etc have been covered in detail The valence bond and molecular orbital methods of bonding hybridization orbital structure of common hydrocarbons bonding in coordination compounds based on valence bond and ligand field theories the concept of valency ionic and covalent bonding bonding in metals secondary bond forces and so on have been discussed in a reasonable amount of detail A unique feature of the book is the adoption of a problem solving approach Thus while the text has been frequently interspersed with numerous fully worked out illustrative examples to help the concepts and theories a large number of fully solved problems have been appended at the end of each chapter totalling nearly 300 With its lucid style and in depth coverage the book would be immensely useful to undergraduate and postgraduate students of general chemistry and quantum chemistry Students of physics and materials science would also find the book an invaluable supplement

*Problem Solving Approaches for Maintaining Operational Excellence in Process Plants* Joseph M. Bonem, Nattapong Pongboot, Wiroon Tanthapanichakoon, 2025-02-19 Comprehensive reference providing methods for process operators to solve challenging process problems and develop working hypotheses for typical process equipment Problem Solving Approaches for Maintaining Operational Excellence in Process Plants provides a template for achieving an enhanced level of operating efficiency in chemical processing plants and refineries With examples included throughout to demonstrate key concepts this book includes methods for formulating working hypotheses for typical process equipment such as pumps compressors heat exchangers furnaces fractionating towers and reactors with additional information on defining and setting metrics and the application of the techniques in unusual situations as well as the application of these techniques in view of commercially available computer simulation programs This book covers topics including initial considerations in problem solving basic steps in problem solving and verification of process instrument data with solved problems showing how

techniques can be applied to prime movers plate processes kinetically limited processes and unsteady state problems This newly revised and updated Second Edition includes coverage of the latest research and developments in the field Written by a team of highly qualified industry professionals Problem Solving Approaches for Maintaining Operational Excellence in Process Plants includes discussion on Lumped parameters as the ideal approach to determine values for key performance indicators KPIs Theoretical KPIs in comparison to actual operation as a method to find hidden problems Situations where experience based solutions are unavailable due to lack of technically trained personnel Solutions to problems where a previous analysis has confirmed a need for new equipment or enhanced operating procedures Digital twins and their usefulness in predicting yields executing plant operations and training operating and technical personnel Problem Solving Approaches for Maintaining Operational Excellence in Process Plants is an essential reference on the subject for chemical engineers industrial engineers process operators process shift supervisors chemical engineers with minimal exposure to industrial calculations and industrial managers who are looking for techniques to improve organization problem solving skills

**Pharmaceutical Calculations** Maria Glaucia Teixeira, Joel L. Zatz, 2017-02-13 Retaining the successful previous editions programmed instructional format this book improves and updates an authoritative textbook to keep pace with compounding trends and calculations addressing real world calculations pharmacists perform and allowing students to learn at their own pace through examples Connects well with the current emphasis on self paced and active learning in pharmacy schools Adds a new chapter dedicated to practical calculations used in contemporary compounding new appendices and solutions and answers for all problems Maintains value for teaching pharmacy students the principles while also serving as a reference for review by students in preparation for licensure exams Rearranges chapters and rewrites topics of the previous edition making its content ideal to be used as the primary textbook in a typical dosage calculations course for any health care professional Reviews of the prior edition a well structured approach to the topic Drug Development and Industrial Pharmacy and a perfectly organized manual that serves as a expert guide Electric Review The Development Factory Gary P. Pisano, 1997 When the pharmaceuticals giant Merck reports promising results for a potential blockbuster drug the story makes the evening news Now at a time when new product development has become critical to success in so many industries The Development Factory proves that process innovation not just product innovation can be the key to competitive edge In this multiyear study of pharmaceutical and biotechnology firms Gary Pisano explores the dynamics of superior product and process development in a highly competitive industry that lives and dies by its R D and depends heavily on rapid time to market His work reveals that behind the success of many new product introductions lies the development of novel process technologies that provide lower costs higher quality and increased flexibility Pisano challenges the widely held product process life cycle view of competition which suggests that industries tend to emphasize either product innovation or process innovation He also questions the notion that there is a conflict between pursuit of product innovation and pursuit of lower

costs arguing that product development and process development capabilities are complementary Extending the lessons to a wide variety of manufacturing industries The Development Factory will guide companies toward unlocking the potential of process development and understanding the patterns of organizational behavior and managerial actions that help create and implement new capabilities over time **Bulletin** ,1965 **Research in the Teaching of Science** ,1962 **Bulletin** United States. Office of Education,1965 Introduction to General, Organic, and Biochemistry Morris Hein,Scott Pattison,Susan Arena,Leo R. Best,2014-01-15 The most comprehensive book available on the subject Introduction to General Organic and Biochemistry 11th Edition continues its tradition of fostering the development of problem solving skills featuring numerous examples and coverage of current applications Skillfully anticipating areas of difficulty and pacing the material accordingly this readable work provides clear and logical explanations of chemical concepts as well as the right mix of general chemistry organic chemistry and biochemistry An emphasis on real world topics lets readers clearly see how the chemistry will apply to their career **Research Trends and Needs in Educating the Gifted** Hugh B. Wood,James John Gallagher,Leonard M. Miller,Ralph Hamilton Blodgett,Ralph Newell Finchum,Martin Schnitzer,1964 *Statistics of Land-grant Colleges and Universities* United States. Office of Education,1965 **Methods Of Teaching Chemistry** K.S. Kumar,2004 Contents Introduction Scope and Influence Past Experience Objectives and Aims Teaching under Scheme Methods of Teaching Role of Teacher Measurement and Evolution Curriculum Development Broadbased Curriculum Enrichment of Controls Planning the Lesson Teaching Devices Audio Visual Aids Role of Laboratory A Rich Laboratory New Trends Place among other Discipline **Teaching Chemistry in Higher Education** Michael Seery,Claire Mc Donnell,2019-07-01 Teaching Chemistry in Higher Education celebrates the contributions of Professor Tina Overton to the scholarship and practice of teaching and learning in chemistry education Leading educators in United Kingdom Ireland and Australia three countries where Tina has had enormous impact and influence have contributed chapters on innovative approaches that are well established in their own practice Each chapter introduces the key education literature underpinning the approach being described Rationales are discussed in the context of attributes and learning outcomes desirable in modern chemistry curricula True to Tina s personal philosophy chapters offer pragmatic and useful guidance on the implementation of innovative teaching approaches drawing from the authors experience of their own practice and evaluations of their implementation Each chapter also offers key guidance points for implementation in readers own settings so as to maximise their adaptability Chapters are supplemented with further reading and supplementary materials on the book s website [overtonfestschrift.wordpress.com](http://overtonfestschrift.wordpress.com) Chapter topics include innovative approaches in facilitating group work problem solving context and problem based learning embedding transferable skills and laboratory education all themes relating to the scholarly interests of Professor Tina Overton About the Editors Michael Seery is Professor of Chemistry Education at the University of Edinburgh and is Editor of Chemistry Education Research and Practice Claire Mc Donnell is

Assistant Head of School of Chemical and Pharmaceutical Sciences at Technological University Dublin Cover Art Christopher Armstrong University of Hull

**Water Chemistry** Mark M. Benjamin, 2014-09-26 Aquatic chemistry students need a solid foundation in fundamental concepts as well as numerical techniques for solving the variety of problems they will encounter as practicing engineers For over a decade Mark Benjamin's Water Chemistry has brought to the classroom a balanced coverage of fundamentals and analytical algorithms in a student friendly accessible way The text distinguishes itself with longer and more detailed explanations of the relevant chemistry and mathematics allowing students to understand not only which techniques work best for a given application but also why those techniques should be applied and what their limitations are The end result is a solid thorough framework for comprehending equilibrium in complex aquatic systems The second edition includes a thorough introductory explanation of chemical reactivity and a new chapter on reaction kinetics providing much needed context as well as full treatments of the tableau method and TOTH equation The discussion of the thermodynamic perspective on chemical reactivity has been extensively revised The entire book now integrates Visual Minteq the most popular software for analyzing chemical equilibria into the problem solving approach Additional exercises range more widely in difficulty giving instructors more flexibility and diversity in their assignments

TRAC: Trends in Analytical Chemistry U A Th Brinkman, A. E. Bruno, A. L. Burlingame, 2013-09-17 TRAC Trends in Analytical Chemistry Volume 10 presents relevant topics in global analytical chemistry research This book discusses the potential of flow injection analysis for water quality monitoring Organized into 27 parts encompassing 67 chapters this book begins with an overview of the amount of published information on analytical chemistry research This text then examines the analytical technique in the electrophoretic separations in narrow bore tubes which is capable of rapid high resolution separations of water soluble components in small sample volumes Other chapters consider the application of polynomial and B spline interpolation to the description of cyclic voltammetric features This book discusses as well the methods used to investigate the properties of ceramic high transition temperature superconductors The final chapter deals with the importance of monitoring and protecting the environment based on measurement campaigns This book is a valuable resource for analytical chemists environmental chemists and biochemists Pharmacologists scientists students researcher workers and other practitioners will also find this book useful

Organic Chemistry Penny Chaloner, 2014-12-15 Offering a different more engaging approach to teaching and learning Organic Chemistry A Mechanistic Approach classifies organic chemistry according to mechanism rather than by functional group The book elicits an understanding of the material by means of problem solving instead of purely requiring memorization The text enables a deep understanding of underlying principles that can be applied to a wide range of problems and systems It also teaches a way of thinking and analysis that will serve students well across many academic disciplines Covering all the key aspects of organic chemistry this text emphasizes the development of skills through a student centered approach In order to provide a contemporary feel to the subject the author has included some of the more

modern synthetic approaches In addition later chapters address the biological environmental industrial and forensic aspects of organic chemistry Pedagogical Features Extensive review problems which are the central means of integrating the material Focus boxes that highlight key points in the chapters An instructors website with full lecture notes in animated PowerPoint a solutions manual in both Word and PowerPoint format and additional problems for use in tests A student website with solutions to review problems and additional challenging problems and solutions for the ambitious in animated PowerPoint and text versions Analytical Chemistry Ira S. Krull, 2012-11-07 The current text deals with several very important topics of modern Analytical Chemistry such as analytical method validation in biotechnology today principal component analysis kinetic methods of analysis using potentiometric and spectrophotometric detectors the current status of Analytical Chemistry and where it may move in the future peptide and amino acid separations and identification and several other related topics in this growing and increasingly important area of Chemistry in general Analytical Chemistry has come to assume an incredibly important role in most if not all areas of scientific research today from the current Mars lander rover to underwater explorations to forensic science to DNA characterization for dedicated medicine treatments to climate change and others just as important areas of modern scientific research and development Its usage in modern omics R

Introduction to Chemistry and The Environment Baldwin King, 2002-03-06 Introduction to Chemistry and the Environment is written primarily to satisfy the need for a suitable textbook for a one semester course in chemistry and the environment for non science majors It is also suitable for persons who have no knowledge of chemistry but would like to be informed about the science behind many of the environmental issues facing the general public The pedagogical approach is first to provide the basics of chemistry in a conceptual non mathematical way using material from the environment where possible Then these principles are used to discuss many of the major issues in air and water pollution The text consists of ten brief chapters The first five chapters discuss chemical principles in a succinct but scientifically sound manner The individual instructor is encouraged to elaborate on these topics as he or she sees fit The next two chapters discuss the properties of gases especially the components of air and then issues in air pollution The next two chapters focus on the properties of water and aqueous solutions followed by issues in water pollution The final brief chapter is an attempt to put everything in perspective by discussing human health and the environment Included at the end of each chapter are some suggested readings for those who would like a more detailed discussion of the topics covered A set of discussion type questions ends each chapter Writing science for nonscientists is a difficult task However Baldwin King has used his many years as a chemical educator to produce a text which is clear and eminently readable by non chemists

This book delves into Basic Chemistry A Problem Solving Approach. Basic Chemistry A Problem Solving Approach is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Basic Chemistry A Problem Solving Approach, encompassing both the fundamentals and more intricate discussions.

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- Chapter 2: Essential Elements of Basic Chemistry A Problem Solving Approach
- Chapter 3: Basic Chemistry A Problem Solving Approach in Everyday Life
- Chapter 4: Basic Chemistry A Problem Solving Approach in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Basic Chemistry A Problem Solving Approach. This chapter will explore what Basic Chemistry A Problem Solving Approach is, why Basic Chemistry A Problem Solving Approach is vital, and how to effectively learn about Basic Chemistry A Problem Solving Approach.
3. In chapter 2, the author will delve into the foundational concepts of Basic Chemistry A Problem Solving Approach. This chapter will elucidate the essential principles that need to be understood to grasp Basic Chemistry A Problem Solving Approach in its entirety.
4. In chapter 3, this book will examine the practical applications of Basic Chemistry A Problem Solving Approach in daily life. The third chapter will showcase real-world examples of how Basic Chemistry A Problem Solving Approach can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Basic Chemistry A Problem Solving Approach in specific contexts. This chapter will explore how Basic Chemistry A Problem Solving Approach is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Basic Chemistry A Problem Solving Approach. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Basic Chemistry A Problem Solving Approach.

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web membership members only portal new members of sigma gamma rho sorority inc are accepted on both the undergraduate and graduate levels potential graduate members must hold a degree from a four year accredited educational institution

about sigma gamma rho - Nov 14 2022

web sigma gamma rho s commitment to service is expressed in its slogan greater service greater progress the sorority has a proud history of offering service wherever chapters exist including operation bigbookbag a program designed to address the needs challenges and issues that face school aged children who are educationally at risk in

**sigma gamma rho wikipedia** - Aug 23 2023

web sigma gamma rho sorority inc ΣΓΡ is a historically african american sorority international collegiate and non profit community service organization that was founded on november 12 1922 the organization was formed as a club in 1920 by seven african american women in indianapolis indiana at its inception the sorority was created to

spring 2022 edition the aurora by the aurora magazine of sigma gamma - Dec 15 2022

web apr 29 2022 as sigma gamma rho sorority incorporated continues to celebrate its centennial year the eta sigma chapter in partnership with fulton county board of health core eta lambda chapter of alpha phi

*why black sororities and fraternities of the divine nine say they* - May 20 2023

web oct 22 2023 a member of sigma gamma rho sorority inc wears the sorority s signature royal blue and gold praphernalia alpha gamma rho wikipedia - Apr 07 2022

web alpha gamma rho referred to as agr was founded when two local fraternities from ohio state university alpha gamma rho founded 1904 and the university of illinois delta rho sigma founded in 1906 met at an international livestock competition in

[home alpha sigma sgrho](#) - Mar 06 2022

web it is the mission of sigma gamma rho sorority inc to enhance the quality of life for women and their families in the u s and globally through community service civil and social action our goal is to achieve greater progress in the areas of education health awareness and leadership development our members affiliates staff and

**sigma gamma rho xi zeta chapter poetry** - Apr 19 2023

web when there is hearty handshake in the bond of sisterhood there is love and something noble something great and good this exists in one sorority the grandest that we know one that stands for the highest ideals sigma gamma rho soror aubrie johnson

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web sigma gamma rho handshake downloaded from old thekitroom co uk by guest aniya coleman the makio springer nature contains over seven hundred entries on african american folklore including music art foodways spiritual beliefs and proverbs the gargoyles sigma nu fraternity deltathe aurorajetthe weekly source of african american

*sigma gamma rho handshake dream networkonair* - May 08 2022

web gamma rho sigma hater sigma presiding officer shows each candidate the handclasp i soror do greet you soror as my sister in sigma gamma rho sorority philo sigma advisor gives these personalized greek hockey jerseys all come with sewn on twill letters in the colors or pattern designs sigma gamma rho sigma iota alpha sigma iota sigma

[sigma gamma rho home page photo gallery testimonials](#) - Jun 21 2023

web sigma gamma rho s commitment to service is expressed in its slogan greater service greater progress we have a proud history of providing positive and proactive community outreach sigma gamma rho enhances the quality of life for women and their families in the u s and globally

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web sigma gamma rho sorority inc is a historically african american sorority international collegiate and non profit community service organization that was founded on november 12 1922 by seven educators on the irvington campus of butler university in

*secret handshake greekchat com forums* - Sep 24 2023

web jan 11 2006 alpha beta gamma delta epsilon zeta eta theta iota kappa lambda mu nu xi omicron pi rho sigma tau upsilon phi chi psi omega ngl page 1 of 2 1

[sigma gamma rho greek life](#) - Jan 16 2023

web sep 17 2020 sigma gamma rho sorority s aim is to enhance the quality of life within the community public service leadership development and education of youth are the hallmark of the organization s programs and activities sigma gamma

rho addresses concerns that impact society educationally civically and economically

*t o r c h amazon web services inc* - Mar 18 2023

web sigma gamma rho sorority during this module they also prepare for sorority membership status during this period this module teaches prospective members how to effectively plan and execute projects the goal of this module is a completed community service project with letters of verification from the organization assisted

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*sigma gamma rho by shatica johnson prezi* - Sep 12 2022

web oct 29 2019 sigma gamma rho sorority inc sigma gamma rho sorority inc was founded on november 12th 1922 in indianapolis in on the campus of butler university by the pearls our seven founders it wasn t until december 30th 1929 when the group became an incorporated national collegiate sorority and a charter was granted to alpha

**encounter english meaning cambridge dictionary** - Jun 21 2023

web add to word list a meeting especially one that happens by chance encounter with i had an alarming encounter with a wild pig encounter between this meeting will be the first

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web encounter therapy i bireylerin diğer kişilerle iletişimini iyileştirmelerine yardımcı olmayı amaçlayan bir grup terapisi türü İngilizce türkçe online sözlük tureng kelime ve terimleri çevir ve farklı aksanlarda sesli dinleme encounter karşılaşma encounter specialist yargısız infazcı ne demek

encounter definition meaning merriam webster - May 20 2023

web the meaning of encounter is to meet as an adversary or enemy how to use encounter in a sentence to meet as an adversary or enemy to engage in conflict with to come

*encounter definition meaning britannica dictionary* - Feb 17 2023

web britannica dictionary definition of encounter count 1 a a meeting that is not planned or expected an accidental encounter a chance encounter with a famous writer b a usually brief experience with another person a brief painful encounter he s accused of having had sexual encounters with several young women

**tureng encounter türkçe İngilizce sözlük** - Aug 23 2023

web bireylerin diğer kişilerle iletişimini iyileştirmelerine yardımcı olmayı amaçlayan bir grup terapisi türü İngilizce türkçe

online sözlük tureng kelime ve terimleri çevir ve farklı aksanlarda sesli dinleme encounter karşılaşma encounter rastlama  
encounter rastlamak ne

**encounter definition meaning dictionary com** - Dec 15 2022

web a meeting of two or more people as the members of an encounter group or a number of married couples marriage  
encounter conducted to promote direct emotional

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web nov 18 2021 3 3 yönetmen cal bruner oyuncular finn lee epp mckenna grace christian convey fragman vizyondaki en  
İyi filmler Özet İki kardeş onları insanlık dışı bir tehditten korumaya çalışan babalarıyla birlikte kaçır yolculukları onları  
giderek daha tehlikeli yönere sürüklerken çocuklar acı gerçeklerle yüzleşmek

*encounter wordreference com dictionary of english* - Jan 16 2023

web to come upon or meet with esp unexpectedly to encounter a new situation to meet with or contend against difficulties  
opposition etc we encounter so many problems in our

**encounter definition and meaning collins english dictionary** - Apr 19 2023

web oct 22 2023 a meeting of two or more people as the members of an encounter group or a number of married couples  
marriage encounter conducted to promote direct emotional confrontations among the participants esp as a form of therapy  
encounter therapy

**encounter türkçe altyazılı izle dizifon** - Jul 22 2023

web encounter park shin woo nun yönettiği 2018 güney kore dramasıdır cha soo hyun song hye kyo güçlü ve politik bir  
ailenin kızıdır yakın zamanda zengin kocasını görücü usulüyle boşandı