

## Modern Chemistry Chapter 1 Review Answers

Making explicit the connections between physical organic chemistry and critical fields such as organometallic chemistry, materials chemistry, bioorganic chemistry and biochemistry, this book escorts the reader into an area that has been thoroughly updated in recent times.

"In partnership with Scientific American"--Cover.

The 12th edition of Organic Chemistry continues Solomons, Fryhle & Snyder's tradition of excellence in teaching and preparing students for success in the organic classroom and beyond. A central theme of the authors' approach to organic chemistry is to emphasize the relationship between structure and reactivity. To accomplish this, the content is organized in a way that combines the most useful features of a functional group approach with one largely based on reaction mechanisms. The authors' philosophy is to emphasize mechanisms and their common aspects as often as possible, and at the same time, use the unifying features of functional groups as the basis for most chapters. The structural aspects of the authors' approach show students what organic chemistry is. Mechanistic aspects of their approach show students how it works. And wherever an opportunity arises, the authors' show students what it does in living systems and the physical world around us.

If you want to understand how our world works, the periodic table holds the answers. When the seventh row of the periodic table of elements was completed in June 2016 with the addition of four final elements—nihonium, moscovium, tennessine, and oganesson—we at last could identify all the ingredients necessary to construct our world. In *Elemental*, chemist and science educator Tim James provides an informative, entertaining, and quirkily illustrated guide to the table that shows clearly how this abstract and seemingly jumbled graphic is relevant to our day-to-day lives. James tells the story of the periodic table from its ancient Greek roots, when you could count the number of elements humans were aware of on one hand, to the modern alchemists of the twentieth and twenty-first centuries who have used nuclear chemistry and physics to generate new elements and complete the periodic table. In addition to this, he answers questions such as: What is the chemical symbol for a human? What would happen if all of the elements were mixed together? Which liquid can teleport through walls? Why is the medieval dream of transmuting lead into gold now a reality? Whether you're studying the periodic table for the first time or are simply interested in the fundamental building blocks of the universe—from the core of the sun to the networks in your brain—*Elemental* is the perfect guide.

How did life originate on Earth? For over 50 years, scientists believed that life was the result of a chemical reaction involving simple molecules such as methane and ammonia cooking in a primordial soup. Recent space observations have revealed that old stars are capable of making very complex organic compounds. At some point in their evolution, stars eject those organics and

spread them all over the Milky Way galaxy. There is evidence that these organic dust particles actually reached the early Solar System. Through bombardments by comets and asteroids, the young Earth inherited significant amounts of stardust. Was the development of life assisted by the arrival of these extraterrestrial materials? In this book, the author describes stunning discoveries in astronomy and solar system science made over the last 10 years that have yielded a new perspective on the origin of life. Other interesting topics discussed in this book The discovery of diamonds and other gemstones in space The origin of oil Neon signs and fluorescent lights in space Smoke from the stars Stardust in our hands Where oceans come from The possibility of bacteria in space This substantially revised and updated classic reference offers a valuable overview and myriad details on current chemical processes, products, and practices. No other source offers as much data on the chemistry, engineering, economics, and infrastructure of the industry. The two volume Handbook serves a spectrum of individuals, from those who are directly involved in the chemical industry to others in related industries and activities. Industrial processes and products can be much enhanced through observing the tenets and applying the methodologies found in the book's new chapters.

Introductory Organic Chemistry provides a descriptive overview of organic chemistry and how modern organic chemistry is practiced. Organic compounds such as alkanes, cycloalkanes, alkenes, cycloalkenes, and alkynes are covered, along with aromatic hydrocarbons, compounds derived from water and hydrogen sulfide, and compounds derived from ammonia. This book also explores organic reaction mechanisms and describes the use of molecular spectroscopy in studying the chemical structure of organic complexes. This text consists of 15 chapters and begins with a discussion on some fundamental ideas about organic chemistry, from the electronic structure of atoms to molecular structure, molecular orbitals, hybridization of atomic orbitals in carbon, chemical equilibrium, enthalpy, and acids and bases. The chapters that follow focus on the compounds of carbon such as alkanes and cycloalkanes; benzene and other aromatic hydrocarbons; amines and other heterocyclic molecules; aldehydes and ketones; carboxylic acids and their derivatives; nucleic acids; amino acids; peptides; and proteins. The use of instrumentation methods in organic chemistry, particularly mass spectrometry and nuclear magnetic resonance spectroscopy, is also considered. An account of the mechanisms of an organic reaction is presented, paying particular attention to displacement and elimination reactions. This book concludes with a commentary on how most of the amino acids, sugars, heterocyclic molecules, and fatty acids necessary for life processes could have been formed on Earth. This book is intended for nonmajors taking an introductory organic chemistry course of two quarters or one semester in length.

Winner of 2018 PROSE Award for MULTIVOLUME REFERENCE/SCIENCE This encyclopedia offers a comprehensive and easy reference to physical organic chemistry (POC) methodology and techniques. It puts POC, a classical and

fundamental discipline of chemistry, into the context of modern and dynamic fields like biochemical processes, materials science, and molecular electronics. Covers basic terms and theories into organic reactions and mechanisms, molecular designs and syntheses, tools and experimental techniques, and applications and future directions Includes coverage of green chemistry and polymerization reactions Reviews different strategies for molecular design and synthesis of functional molecules Discusses computational methods, software packages, and more than 34 kinds of spectroscopies and techniques for studying structures and mechanisms Explores applications in areas from biology to materials science The Encyclopedia of Physical Organic Chemistry has won the 2018 PROSE Award for MULTIVOLUME REFERENCE/SCIENCE. The PROSE Awards recognize the best books, journals and digital content produced by professional and scholarly publishers. Submissions are reviewed by a panel of 18 judges that includes editors, academics, publishers and research librarians who evaluate each work for its contribution to professional and scholarly publishing. You can find out more at: [proseawards.com](http://proseawards.com) Also available as an online edition for your library, for more details visit Wiley Online Library

John Servos explains the emergence of physical chemistry in America by presenting a series of lively portraits of such pivotal figures as Wilhelm Ostwald, A. A. Noyes, G. N. Lewis, and Linus Pauling, and of key institutions, including MIT, the University of California at Berkeley, and Caltech. In the early twentieth century, physical chemistry was a new hybrid science, the molecular biology of its time. The names of its progenitors were familiar to everyone who was scientifically literate; studies of aqueous solutions and of chemical thermodynamics had transformed scientific knowledge of chemical affinity. By exploring the relationship of the discipline to industry and to other sciences, and by tracing the research of its leading American practitioners, Servos shows how physical chemistry was eclipsed by its own offspring--specialties like quantum chemistry.

From ancient Greek theory to the explosive discoveries of the 20th century, this authoritative history shows how major chemists, their discoveries, and political, economic, and social developments transformed chemistry into a modern science. 209 illustrations. 14 tables. Bibliographies. Indices. Appendices. Our high school chemistry program has been redesigned and updated to give your students the right balance of concepts and applications in a program that provides more active learning, more real-world connections, and more engaging content. A revised and enhanced text, designed especially for high school, helps students actively develop and apply their understanding of chemical concepts. Hands-on labs and activities emphasize cutting-edge applications and help students connect concepts to the real world. A new, captivating design, clear writing style, and innovative technology resources support your students in getting the most out of their textbook. - Publisher.

Modern Electrosynthetic Methods in Organic Chemistry introduces readers to

new ways of making materials and compounds using low waste processes, employing energy from electricity rather than chemical reagents. It explores electro-organic synthesis, which offers clean synthesis tools as well as unusual reaction intermediates and reaction types. Despite applications previously remaining niche, due to the advent of microfluidic reactors this book is a must-read for industry professionals and academics alike. It targets specific areas of recent progress and development in the field that show high novelty and potential, at the same time inviting a wider range of applications in green and clean technology. Key Features: Offers clean synthesis tools Targets areas of recent progress and development Addresses the most recent advances in the field

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 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.

Designed for students in Nebo School District, this text covers the Utah State Core Curriculum for chemistry with few additional topics.

This updated and up-to-date version of the first edition continues with the really interesting stuff to spice up a standard biophysics and biophysical chemistry course. All relevant methods used in current cutting edge research including such recent developments as super-resolution microscopy and next-generation DNA sequencing techniques, as well as industrial applications, are explained. The text has been developed from a graduate course taught by the author for several years, and by presenting a mix of basic theory and real-life examples, he closes the gap between theory and experiment. The first part, on basic biophysical chemistry, surveys fundamental and spectroscopic techniques as well as biomolecular properties that represent the modern standard and are also the basis for the more sophisticated technologies discussed later in the book. The second part covers the latest bioanalytical techniques such as the mentioned super-resolution and next generation sequencing methods, confocal fluorescence microscopy, light sheet microscopy, two-photon microscopy and ultrafast spectroscopy, single molecule optical, electrical and force measurements, fluorescence correlation spectroscopy, optical tweezers, quantum dots and DNA origami techniques. Both the text and illustrations have been prepared in a clear and accessible style, with extended and updated exercises (and their solutions) accompanying each chapter. Readers with a basic understanding of biochemistry and/or biophysics will quickly gain an overview of cutting edge technology for the biophysical analysis of proteins, nucleic acids and other biomolecules and their interactions. Equally, any student contemplating a career in the chemical, pharmaceutical or bio-industry will greatly benefit from the technological knowledge presented. Questions of differing complexity testing the reader's understanding can be found at the end of each chapter with clearly described solutions available on the Wiley-VCH textbook homepage under: [www.wiley-vch.de/textbooks](http://www.wiley-vch.de/textbooks)

This seminal series, first edited by Ernest Eliel, responsible for some of the major advances in stereochemistry and the winner of the ACS Priestley Medal in 1996, provides coverage of the major developments of the field of stereochemistry. The scope of this series is broadly defined to encompass all fields of chemical and biological sciences that are founded on molecular and supramolecular interactions. Insofar as chemical, physical, and biological properties are determined by molecular shape and structure, the importance of stereochemistry is fundamental to and consequential for all natural sciences. Topics in Stereochemistry serves as a multidisciplinary series that enriches all of chemistry. Aimed at advanced students, university professors and teachers as well as researchers in pharmaceutical, agricultural, biotechnological, polymer, materials, and fine chemical industries, Topics in Stereochemistry publishes definitive and scholarly reviews in stereochemistry and has long been recognized as the gold standard reference work in this field. Covering the effect of chirality on all aspects of molecular interaction from the fundamental physical chemical properties of molecules and their molecular physics to the application of chirality in new areas such as its applications in materials science, Topics in Stereochemistry explores a wide variety of properties, both physical and chemical of isomers with a view to their applications in a number of disciplines from biochemistry to materials science.

Most people remember chemistry from their schooldays as largely incomprehensible, a subject that was fact-rich but understanding-poor, smelly, and so far removed from the real world of events and pleasures that there seemed little point, except for the most introverted, in coming to terms with its grubby concepts, spells, recipes, and rules. Peter Atkins wants to change all that. In this Very Short Introduction to Chemistry, he encourages us to look at chemistry anew, through a chemist's eyes, in order to understand its central concepts and to see how it contributes not only towards our material comfort, but also to human culture. Atkins shows how chemistry provides the infrastructure of our world, through the chemical industry, the fuels of heating, power generation, and transport, as well as the fabrics of our clothing and furnishings. By considering the remarkable achievements that chemistry has made, and examining its place between both physics and biology, Atkins presents a fascinating, clear, and rigorous exploration of the world of chemistry - its structure, core concepts, and exciting contributions to new cutting-edge technologies. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

A reactions oriented course is a staple of most graduate organic programs, and synthesis is taught either as a part of that course or as a special topic. Ideally, the incoming student is an organic major, who has a good working knowledge of basic reactions, stereochemistry and conformational principles. In fact, however, many (often most) of the students in a first year graduate level organic course have deficiencies in their undergraduate work, are not organic majors and are not synthetically inclined. To save students much time catching up this text provides a reliable and readily available source for background material that will enable all graduate students to reach the same high level of proficiency in organic chemistry. Produced over many years with extensive feedback from students taking an organic chemistry course this book provides a reaction based approach. The first two chapters provide an introduction to functional groups; these are followed by chapters reviewing basic organic transformations (e.g. oxidation, reduction). The book then looks at carbon-carbon bond formation reactions and ways to 'disconnect' a bigger molecule into simpler building blocks. Most chapters include an extensive list of questions to test the reader's understanding. There is also a new chapter outlining full retrosynthetic analyses of complex molecules which highlights common problems made by scientists. The book is intended for graduate and postgraduate students, scientific

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researchers in chemistry New publisher, new edition; extensively updated and corrected Over 950 new references with more than 6100 references in total Over 600 new reactions and figures replaced or updated Over 300 new homework problems from the current literature to provide nearly 800 problems to test reader understanding of the key principles

Recent years have seen tremendous progress in research on cold and controlled molecular collisions, both in theory and in experiment. The advent of techniques to prepare cold and ultracold molecules and ions, to store them in optical lattices or in charged quasicrystalline structures, and to use them in crossed or merged beam experiments have opened many new possibilities to study the most fundamental aspects of molecular interactions. At the same time, theoretical work has made progress in tackling these problems and accurately describing quantum effects in complex systems, and in proposing viable options to control chemical reactions at ultralow energies. Through tutorials on both the theoretical and experimental aspects of research in cold and ultracold molecular collisions, this book provides advanced undergraduate students, graduate students and researchers with the foundations needed to understand this exciting field.

Long considered the standard for honors and high-level mainstream general chemistry courses, PRINCIPLES OF MODERN CHEMISTRY continues to set the standard as the most modern, rigorous, and chemically and mathematically accurate text on the market. This authoritative text features an "atoms first" approach and thoroughly revised chapters on Quantum Mechanics and Molecular Structure (Chapter 6), Electrochemistry (Chapter 17), and Molecular Spectroscopy and Photochemistry (Chapter 20). In addition, the text utilizes mathematically accurate and artistic atomic and molecular orbital art, and is student friendly without compromising its rigor. End-of-chapter study aids focus on only the most important key objectives, equations and concepts, making it easier for students to locate chapter content, while applications to a wide range of disciplines, such as biology, chemical engineering, biochemistry, and medicine deepen students' understanding of the relevance of chemistry beyond the classroom.

General Chemistry for Engineers explores the key areas of chemistry needed for engineers. This book develops material from the basics to more advanced areas in a systematic fashion. As the material is presented, case studies relevant to engineering are included that demonstrate the strong link between chemistry and the various areas of engineering. Serves as a unique chemistry reference source for professional engineers Provides the chemistry principles required by various engineering disciplines Begins with an 'atoms first' approach, building from the simple to the more complex chemical concepts Includes engineering case studies connecting chemical principles to solving actual engineering problems Links chemistry to contemporary issues related to the interface between chemistry and engineering practices This edition is designed to help undergraduate health-related majors, and students of all other majors, understand key concepts and appreciate the significant connections between chemistry, health, disease, and the treatment of disease.

Holt McDougal Modern Chemistry Modern Chemistry World of Chemistry Houghton Mifflin

Modern Inorganic Synthetic Chemistry, Second Edition captures, in five distinct sections, the latest advancements in inorganic synthetic chemistry, providing materials chemists, chemical engineers, and materials scientists with a valuable reference source to help them advance their research efforts and achieve breakthroughs. Section one includes six chapters centering on synthetic chemistry under specific conditions, such as high-temperature, low-temperature and cryogenic, hydrothermal and solvothermal, high-pressure, photochemical and fusion conditions. Section two focuses on the synthesis and related chemistry problems of highly distinct categories of inorganic

compounds, including superheavy elements, coordination compounds and coordination polymers, cluster compounds, organometallic compounds, inorganic polymers, and nonstoichiometric compounds. Section three elaborates on the synthetic chemistry of five important classes of inorganic functional materials, namely, ordered porous materials, carbon materials, advanced ceramic materials, host-guest materials, and hierarchically structured materials. Section four consists of four chapters where the synthesis of functional inorganic aggregates is discussed, giving special attention to the growth of single crystals, assembly of nanomaterials, and preparation of amorphous materials and membranes. The new edition's biggest highlight is Section five where the frontier in inorganic synthetic chemistry is reviewed by focusing on biomimetic synthesis and rationally designed synthesis. Focuses on the chemistry of inorganic synthesis, assembly, and organization of wide-ranging inorganic systems Covers all major methodologies of inorganic synthesis Provides state-of-the-art synthetic methods Includes real examples in the organization of complex inorganic functional materials Contains more than 4000 references that are all highly reflective of the latest advancement in inorganic synthetic chemistry Presents a comprehensive coverage of the key issues involved in modern inorganic synthetic chemistry as written by experts in the field

Meets All California State Standards! Glencoe California Chemistry: Matter and Change combines the elements students need to succeed! A comprehensive course of study designed for a first-year high school chemistry curriculum, this program incorporates features for strong math support and problem-solving development. Promote strong inquiry learning with a variety of in-text lab options, including Discovery Labs, MiniLabs, Problem-Solving Labs, and ChemLabs (large- and small-scale), in addition to Forensics, Probeware, Small-Scale, and Lab Manuals. Provide simple, inexpensive, safe chemistry activities with Try at Home labs. Unique to Glencoe, these labs are safe enough to be completed outside the classroom and are referenced in the appropriate chapters!

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 unders

This graduate-level text explains the modern in-depth approaches to the calculation of electronic structure and the properties of molecules. Largely self-contained, it features more than 150 exercises. 1989 edition.

Recognized experts present incisive analysis of both fundamental and applied problems in this continuation of a highly acclaimed series. Topics discussed include: A review of the literature on the potential-of-zero charge by Trasatti and Lust. A thorough review and discussion of nonequilibrium fluctuations in corrosion processes. A wide-ranging discussion of conducting polymers, electrochemistry, and biomimicking processes. Microwave (photo)electrochemistry, from its origins to today's research opportunities, including its relation to electrochemistry. New fluorine cell design, from model development through preliminary engineering modeling, laboratory tests, and pilot plant tests. A comprehensive account of the major and rapidly developing field of the electrochemistry of electronically conducting polymers and their applications. These

authoritative studies will be invaluable for researchers in engineering, electrochemistry, analytical chemistry, materials science, physical chemistry, and corrosion science. Noboru Hirota has produced a major historical analysis of how the field of chemistry has evolved over centuries. Spanning more than eight hundred pages, this book presents an exhaustive study of the field, showing how ground-breaking discoveries were made and innovative theories were constructed, with personal portrayals and interesting anecdotes of pioneering scholars. Positioning chemistry carefully within the natural sciences, the author rejects the traditional separation of physics, chemistry and biology, defines chemistry broadly as the 'science of atoms and molecules, ' and traces its dynamic history with an emphasis on 20th century developments and more recent findings. Professor Hirota himself has spearheaded research in physical chemistry for more than four decades in Japan and the United States, with cutting-edge engagement with magnetic resonance, spectroscopy, and photochemistry. This publication invites specialized researchers to traverse the pathways along which the subject developed into its present form and to understand how their own research fits into the broad scope of science as a whole. \*\*\*\*\*Chosen as an Outstanding Academic Title for 2017 by Choice Magazine!! In addition, the Choice subject editors have chosen "A History of Modern Chemistry" as one of their top favorite 25 titles! \*\*\*\*"There are many books on the history of chemistry, but few that provide a comprehensive overview of the field up to the modern day. This book admirably fills that need. Overall, this is an excellent book and is strongly recommended." --Choice, Vol. 54, No. 7, March 2017 [Subject: History of Science, Chemistry

"The Chemistry of Polymers is a concise, easy-to-read, inexpensive introduction to the subject and fulfils the need for a polymer text written from an applied angle. It covers the basics of polymer chemistry while emphasising the practical applications and is essential for those who wish to acquire a rapid overview of the field. This book covers the basics of polymer synthesis, characterisation, reaction kinetics and materials science, as well as important specialised topics such as polymer degradation, polymers and pollution, and a variety of technological developments. Now in its second edition, the book has been revised and expanded to reflect recent developments in the subject. There are, for example, extensive updates to the ""Special topics in polymer chemistry"" section, with an additional section on optically active polymers, expanded sections on ionic and co-ordination polymerisations, and copolymerisation, and additional examples of new environmental legislation are outlined wherever appropriate."

Microwaves in Chemistry Applications: Fundamentals, Methods and Future Trends offers a number of benefits over conventional heating technologies, including acceleration of reaction rates, milder reaction conditions, higher chemical yields, lower energy usage and different reaction selectivity, all of which can improve the sustainability of processes. The book provides valuable insights into the underlying chemistry at play in microwave-assisted processes, introducing fundamental concepts, discussing the modeling of reactions in such processes, and also highlighting a range of key methods and applications of microwaves in chemistry for improved sustainability. Beginning with an introduction to microwave chemistry, Part One discusses foundational principles, equipment and approaches for modeling reactions and assessing the outputs of those models. Methods in microwave chemistry are then the



focus of Part Two, with microwave-assisted synthesis, catalysis, reduction and reactions all explored in detail. Part Three reflects on the practical usage of these methods to address specific issues, covering a number of interesting applications. Provides guidance on the modeling and interpretation of microwave effects Discusses microwave chemistry in the context of green chemistry principles Outlines a range of important microwave methods, including microwave-assisted synthesis, catalysis, reactions and reductions

Dipolar cycloaddition reactions have found many useful applications in chemistry, particularly with respect to the synthesis of compounds with new chiral centers. Synthetic Applications of 1,3-Dipolar Cycloaddition Chemistry Toward Heterocycles and Natural Products updates the popular 1984 edition, featuring the advances made over the past twenty years and focusing on synthetic applications.

Fundamentals of Chemistry, Fourth Edition covers the fundamentals of chemistry. The book describes the formation of ionic and covalent bonds; the Lewis theory of bonding; resonance; and the shape of molecules. The book then discusses the theory and some applications of the four kinds of spectroscopy: ultraviolet, infrared, nuclear (proton) magnetic resonance, and mass. Topics that combine environmental significance with descriptive chemistry, including atmospheric pollution from automobile exhaust; the metallurgy of iron and aluminum; corrosion; reactions involving ozone in the upper atmosphere; and the methods of controlling the pollution of air and water, are also considered. Chemists and students taking courses related to chemistry and environmental chemistry will find the book invaluable.

This brief presents a valuable and concise overview of organocatalytic methodologies in carbohydrate chemistry. It includes glycosylation processes with de novo syntheses of carbohydrates and chain elongation of carbohydrates. The author, an academic of international distinction, goes on to make comparisons between traditional organic and metalorganic transformations.

Kaplan's MCAT General Chemistry Review 2020-2021 is updated to reflect the latest, most accurate, and most testable materials on the MCAT. A new layout makes our book even more streamlined and intuitive for easier review. You'll get efficient strategies, detailed subject review, and hundreds of practice questions—all authored by the experts behind the MCAT prep course that has helped more people get into medical school than all other major courses combined. Efficient Strategies and In-Depth Review High Yield badges indicate the most testable content based on AAMC materials Concept summaries that boil down the need-to-know information in each chapter, including any necessary equations to memorize Chapter Profiles indicate the degree to which each chapter is tested and the testmaker content categories to which it aligns Charts, graphs, diagrams, and full-color, 3-D illustrations from Scientific American help turn even the most complex science into easy-to-visualize concepts Realistic Practice One-year online access to instructional videos, practice questions, and quizzes Hundreds of practice questions show you how to apply concepts and equations 15 multiple-choice "Test Your Knowledge" questions at the end of each chapter Learning objectives and concept checks ensure you're focusing on the most important information in each chapter Expert Guidance Sidebars illustrate connections between concepts and include references to more information, real-world tie ins, mnemonics, and MCAT-specific tips Comprehensive subject review written by top-rated, award-

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