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PHYSICAL SCIENCES PAPER 2 (CHEMISTRY)

GRADE 12

TERMS & DEFINITIONS, QUESTIONS & ANSWERS PER TOPIC

2021



TABLE OF CONTENTS



HOW TO USE THIS DOCUMENT	2
TERMS AND DEFINITIONS	3
QUESTIONS	9
ORGANIC MOLECULES: NOMENCLATURE	9
ORGANIC MOLECULES: PHYSICAL PROPERTIES	17
ORGANIC MOLECULES: ORGANIC REACTIONS	24
REACTION RATE AND ENERGY IN CHEMICAL REACTIONS	31
CHEMICAL EQUILIBRIUM	42
ACIDS AND BASES	49
GALVANIC CELLS	56
ELECTROLYTIC CELLS	63
ANSWERS TO QUESTIONS	68
ORGANIC MOLECULES: NOMENCLATURE	68
ORGANIC MOLECULES: PHYSICAL PROPERTIES	74
ORGANIC MOLECULES: ORGANIC REACTIONS	80
REACTION RATE AND ENERGY IN CHEMICAL REACTIONS	86
CHEMICAL EQUILIBRIUM	96
ACIDS AND BASES	107
GALVANIC CELLS	114
ELECTROLYTIC CELLS	117
BIBLIOGRAPHY	119



Memorandum Physical Sciences November 2014

Yi-Tong Ma



Memorandum Physical Sciences November 2014:

Professional Journal of the United States Army, 2015 *Triennial Review of the National Nanotechnology Initiative*
National Research Council, Division on Engineering and Physical Sciences, National Materials and Manufacturing Board, Committee on Triennial Review of the National Nanotechnology Initiative: Phase II, 2013-12-20 The National Nanotechnology Initiative NNI is a multiagency multidisciplinary federal initiative comprising a collection of research programs and other activities funded by the participating agencies and linked by the vision of a future in which the ability to understand and control matter at the nanoscale leads to a revolution in technology and industry that benefits society As first stated in the 2004 NNI strategic plan the participating agencies intend to make progress in realizing that vision by working toward four goals Planning coordination and management of the NNI are carried out by the interagency Nanoscale Science Engineering and Technology NSET Subcommittee of the National Science and Technology Council NSTC Committee on Technology CoT with support from the National Nanotechnology Coordination Office NNCO Triennial Review of the National Nanotechnology Initiative is the latest National Research Council review of the NNI an assessment called for by the 21st Century Nanotechnology Research and Development Act of 2003 The overall objective of the review is to make recommendations to the NSET Subcommittee and the NNCO that will improve the NNI's value for basic and applied research and for development of applications in nanotechnology that will provide economic societal and national security benefits to the United States In its assessment the committee found it important to understand in some detail and to describe in its report the NNI's structure and organization how the NNI fits within the larger federal research enterprise as well as how it can and should be organized for management purposes and the initiative's various stakeholders and their roles with respect to research Because technology transfer one of the four NNI goals is dependent on management and coordination the committee chose to address the topic of technology transfer last following its discussion of definitions of success and metrics for assessing progress toward achieving the four goals and management and coordination Addressing its tasks in this order would the committee hoped better reflect the logic of its approach to review of the NNI Triennial Review of the National Nanotechnology Initiative also provides concluding remarks in the last chapter **Semiconductor TeraHertz Technology**
Guillermo Carpintero, Enrique Garcia-Munoz, Hans Hartnagel, Sascha Preu, Antti Raisanen, 2015-07-14 Key advances in Semiconductor Terahertz THz Technology now promises important new applications enabling scientists and engineers to overcome the challenges of accessing the so called terahertz gap This pioneering reference explains the fundamental methods and surveys innovative techniques in the generation detection and processing of THz waves with solid state devices as well as illustrating their potential applications in security and telecommunications among other fields With contributions from leading experts Semiconductor Terahertz Technology Devices and Systems at Room Temperature Operation comprehensively and systematically covers semiconductor based room temperature operating sources such as photomixers

THz antennas radiation concepts and THz propagation as well as room temperature operating THz detectors The second part of the book focuses on applications such as the latest photonic and electronic THz systems as well as emerging THz technologies including whispering gallery resonators liquid crystals metamaterials and graphene based devices This book will provide support for practicing researchers and professionals and will be an indispensable reference to graduate students in the field of THz technology Key features Includes crucial theoretical background sections to photomixers photoconductive switches and electronic THz generation detection Provides an extensive overview of semiconductor based THz sources and applications Discusses vital technologies for affordable THz applications Supports teaching and studying increasingly popular courses on semiconductor THz technology **Military Review** ,2015 **International Intellectual Property** Daniel J. Gervais,2015-01-30 International Intellectual Property A Handbook of Contemporary Research provides researchers and practitioners of international intellectual property law with the necessary tools to understand the latest debates in this incredibly dynamic and complex The History of the Study of Landforms or the Development of Geomorphology, Volume 5 T.P. Burt,A.S. Goudie,H.A. Viles,2022-10-20 Co published with British Society for Geomorphology This volume is the fifth in the definitive series The History of the Study of Landforms or the Development of Geomorphology Volume 1 1964 dealt with contributions to the field up to 1890 Volume 2 1973 with the concepts and contributions of William Morris Davis and Volume 3 1991 covered historical and regional themes during the classic period of geomorphology 1890 1950 Volume 4 2008 concentrated on studies of geomorphological processes and Quaternary geomorphology between 1890 and 1965 by the end of this period process based studies had become dominant Volume 5 builds on this platform covering in detail the revolutionary changes in approach that characterized the study of geomorphology in the second half of the twentieth century It is divided into three sections the first deals with changes in approach and method the second with changes in ideas and the broader scientific context within which geomorphology is studied and the final section details advances in research on processes and landforms The volume s objective is to describe and analyse many of the developments that provide a foundation for the rich and varied subject matter of twenty first century geomorphology The War Report Annyssa Bellal,2015-12-10 This War Report provides detailed information on every armed conflict which took place during 2014 offering an unprecedented overview of the nature range and impact of these conflicts and the legal issues they created In Part I the Report describes its criteria for the identification and classification of armed conflicts under international law and the legal consequences that flow from this classification It sets out a list of armed conflicts in 2014 categorising each as international non international or a military occupation with estimates of civilian and military casualties In Part II each of these conflicts are examined in more detail with an overview of the belligerents means and methods of warfare the applicable treaties and rules and any prosecutions for investigations into or robust allegations of war crimes Part III of the Report provides detailed thematic analysis of key legal developments which arose in the context of these conflicts allowing for a

more in depth reflection on cross cutting questions and controversies The Report gives a full and accessible overview of armed conflicts in 2014 It should be the first port of call for everyone working in the field **Annual Report** India. Ministry of Youth Affairs & Sports,2014 Government Reports Announcements ,1975 **Yearbook of International Organizations 2014-2015, Volumes 1a & 1b (Set)** Union of International Associations,2014-06-16 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events **Who's who Among Students in American Universities and Colleges** Henry Pettus Randall,1978 **Guide to Microforms in Print** ,1990 **Water and Energy International** ,2016 **Issues in Science and Technology** ,2013 Yearbook of International Organizations 2005/2006 ,2005-06 For the Yearbook of International Organizations the most up to date and comprehensive reference to international organizations the UIA has selected the most important 31 086 organizations from its extensive database of current and previous organizations Yearbook provides profiles of 5 546 intergovernmental and 25 540 international non governmental organizations active in nearly 300 countries and territories in the world today Organization descriptions listed in Volume 1 are numbered sequentially to facilitate quick and easy cross referencing from the other Yearbook Volumes Users can refer to Volumes 2 and 3 to locate organizations by region or subject respectively and comprehensive indexes are included Naturally the high standards of accuracy consistency and detail set by previous editions of the Yearbook of International Organizations have been maintained for this edition **Proceedings of the 8th Ocean Energy Conference, June 7-11, 1981, Washington, D.C.** ,1982 Government Reports Announcements & Index ,1991 **The Canadian Who's who** ,2000 Technical Publications Announcements United States. National Aeronautics and Space Administration,1962-11 U.S. Government Research and Development Reports ,1967

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Table of Contents Memorandum Physical Sciences November 2014

1. Understanding the eBook Memorandum Physical Sciences November 2014
 - The Rise of Digital Reading Memorandum Physical Sciences November 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Memorandum Physical Sciences November 2014
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Memorandum Physical Sciences November 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Memorandum Physical Sciences November 2014
 - Personalized Recommendations

- Memorandum Physical Sciences November 2014 User Reviews and Ratings
- Memorandum Physical Sciences November 2014 and Bestseller Lists
- 5. Accessing Memorandum Physical Sciences November 2014 Free and Paid eBooks
 - Memorandum Physical Sciences November 2014 Public Domain eBooks
 - Memorandum Physical Sciences November 2014 eBook Subscription Services
 - Memorandum Physical Sciences November 2014 Budget-Friendly Options
- 6. Navigating Memorandum Physical Sciences November 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Memorandum Physical Sciences November 2014 Compatibility with Devices
 - Memorandum Physical Sciences November 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Memorandum Physical Sciences November 2014
 - Highlighting and Note-Taking Memorandum Physical Sciences November 2014
 - Interactive Elements Memorandum Physical Sciences November 2014
- 8. Staying Engaged with Memorandum Physical Sciences November 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Memorandum Physical Sciences November 2014
- 9. Balancing eBooks and Physical Books Memorandum Physical Sciences November 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Memorandum Physical Sciences November 2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Memorandum Physical Sciences November 2014
 - Setting Reading Goals Memorandum Physical Sciences November 2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Memorandum Physical Sciences November 2014
 - Fact-Checking eBook Content of Memorandum Physical Sciences November 2014

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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