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AP CHEMISTRY MULTIPLE CHOICE QUESTIONS

Unit 8 – Introduction to Equilibrium



The equilibrium constant for the gas phase reaction above is 95 at 25°C. What is the value of the equilibrium constant for the following reaction at 25°C?



Reversed
+ Doubled

(A) 95²

(B) 95

(C) (95)^{1/2}(D) $\frac{1}{95}$ (E) $\frac{1}{(95)^2}$ 

$\text{C}_2\text{H}_4(\text{g})$ is reduced by $\text{H}_2(\text{g})$ in the presence of a solid platinum catalyst, as represented by the equation above. Factors that could affect the rate of the reaction include which of the following?

- I. Changes in the partial pressure of $\text{H}_2(\text{g})$
- II. Changes in the particle size of the platinum catalyst
- III. Changes in the temperature of the reaction system

(A) III only

(B) I and II only

(C) I and III only

(D) II and III only

(E) I, II, and III



A sealed rigid vessel contains $\text{BaO}_2(\text{s})$ in equilibrium with $\text{BaO}(\text{s})$ and $\text{O}_2(\text{g})$ as represented by the equation above. Which of the following changes will increase the amount of $\text{BaO}_2(\text{s})$ in the vessel?

(A) Removing a small amount of $\text{O}_2(\text{g})$ $R \times$ (B) Removing a small amount of $\text{BaO}(\text{s})$ X (C) Adding He gas to the vessel X (D) Lowering the temperature L

2. For which of the following reaction mixtures at equilibrium would reducing the volume of the container at constant temperature cause the equilibrium to shift toward the products?

increase P°



shift towards fewer
+ make gas



When 4.00 mol each of $\text{X}(\text{g})$ and $\text{Y}(\text{g})$ are placed in a 1.00 L vessel and allowed to react at constant temperature according to the equation above, 6.00 mol of $\text{Z}(\text{g})$ is produced. What is the value of the equilibrium constant, K_c ?

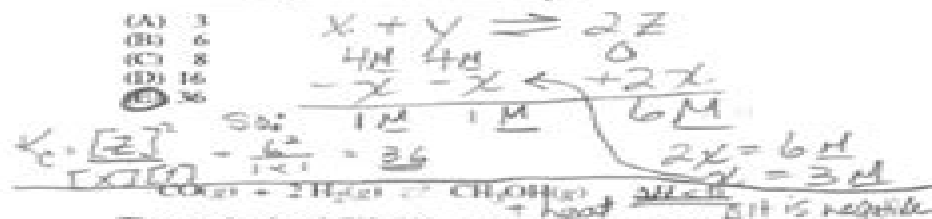
(A) 3

(B) 6

(C) 8

(D) 16

(E) 36



6. The synthesis of $\text{CH}_3\text{OH}(\text{g})$ from $\text{CO}(\text{g})$ and $\text{H}_2(\text{g})$ is represented by the equation above. The value of K_c for the reaction at 483 K is 14.5.

increase heat shifts left, decrease K_c

Which of the following explains the effect on the equilibrium constant, K_c , when the temperature of the reaction system is increased to 650 K?

(A) K_c will increase because the activation energy of the forward reaction increases more than that of the reverse reaction.(B) K_c will increase because there are more reactant molecules than product molecules.(C) K_c will decrease because the reaction is exothermic.(D) K_c is constant and will not change.

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Edward A. Dennis, Ralph A. Bradshaw



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Index Medicus ,2004 Clinical and Basic Immunodermatology Anthony Gaspari,Stephen K. Tyring,2008-11-05 Dermatologists are being asked to understand the pathophysiology of a number of immune mediated skin diseases In addition a number of new products have appeared on the market during the past decade which requires an understanding of the mechanisms of action of these drugs Dermatologists however have no easily understood book to which they can refer to regarding the disease or the drug Handbook of Cell Signaling Ralph A. Bradshaw,Edward A. Dennis,2009-11-03 Handbook of Cell Signaling Three Volume Set 2e is a comprehensive work covering all aspects of intracellular signal processing including extra intracellular membrane receptors signal transduction gene expression translation and cellular organotypic signal responses The second edition is an up to date expanded reference with each section edited by a recognized expert in the field Tabular and well illustrated the Handbook will serve as an in depth reference for this complex and evolving field Handbook of Cell Signaling 2 e will appeal to a broad cross disciplinary audience interested in the structure biochemistry molecular biology and pathology of cellular effectors Contains over 350 chapters of comprehensive coverage on cell signaling Includes discussion on topics from ligand receptor interactions to organ organism responses Provides user friendly well illustrated reputable content by experts in the field **Transduction Mechanisms in Cellular Signaling** Edward A. Dennis,Ralph A. Bradshaw,2011-04-12 Cell signaling which is also often referred to as signal transduction or in more specialized cases transmembrane signaling is the process by which cells communicate with their environment and respond temporally to external cues that they sense there All cells have the capacity to achieve this to some degree albeit with a wide variation in purpose mechanism and response At the same time there is a remarkable degree of similarity over quite a range of species particularly in the eukaryotic kingdom and comparative physiology has been a useful tool in the development of this field The central importance of this general phenomenon sensing of external stimuli by cells has been appreciated for a long time but it has truly become a dominant part of cell and molecular biology research in the past three decades in part because a description of the dynamic responses of cells to external stimuli is in essence a description of the life process itself This approach lies at the core of the developing fields of proteomics and metabolomics and its importance to human and animal health is already plainly evident Provided by publisher RAS Family GTPases Channing Der,2007-04-29 Since 1982 Ras proteins have been the subject of intense research investigation by the biomedical research community The wide interest in Ras has been stimulated for three key reasons This book features chapters contributed by leading investigators in the field that highlight the current state of the art in Ras biochemistry structure and biology This book is an excellent reference for students in the biomedical sciences and for investigators in the field

Science In Medicine Ushma S. Neill,American Society for Clinical Investigation,2007-10-31 Science in Medicine The JCI Textbook of Molecular Medicine is a collection of acclaimed articles published in the Journal of Clinical Investigation during

the Journal's tenure at Columbia University The society that publishes the JCI the American Society for Clinical Investigation ASCI is an honor society of physician scientists representing those who are at the forefront of translating findings in the laboratory to the advancement of clinical practice This textbook brings together state of the art reviews written by the world's leading authorities including many ASCI members The reviews examine the molecular mechanisms underlying a wide array of diseases and disorders affecting all major organ systems The fundamentals of the organ or physiological systems in question are present alongside the underlying genetic or physiological abnormalities that result in disease This text illustrates the translation of basic scientific knowledge into the current practice of clinical medicine The reviews provide an authoritative and comprehensive overview by building on known scientific concepts and treatment of human disease while exploring where these advances might take medicine over the next decade The book is a valuable resource for medical students graduate students house staff attending and practicing physicians and biomedical researchers

Management of Thyroid Cancer and Related Nodular Disease I. Ross McDougall, 2006-10-27 This book covers all aspects of thyroid cancer Heavily illustrated and including pathology thyroid and whole body scans ultrasounds and other nuclear medicine and radiological studies the book addresses important issues that physicians should cover when dealing with their patients The text is designed for physicians endocrinologists nuclear medicine physicians general and head and neck surgeons oncologists and radiation oncologists and primary care doctors Other groups are residents medical students and nurse practitioners researching a patient related problem

Mitochondria and Their Role in Cardiovascular Disease José Marín-García, 2012-11-19 Over the past two decades due to dramatic advances in molecular and cell biology biochemistry and genetics our view on mitochondria as a relatively static cellular powerhouse has changed radically We now know that these organelles play a critical role in the normal and in the damaged heart Written by Dr Jos Mar n Garc a Director of the Molecular Cardiology and Neuromuscular Institute Mitochondria and Their Role in Cardiovascular Disease brings readers up to date on the many significant advances in the field of mitochondrial cardiovascular medicine The book begins with a general introduction to mitochondria followed by laboratory methods to study the structure and function of the organelle regulation of replication and biogenesis and the mechanisms and functional consequences of mitophagia and mitochondrial dynamics Subsequent chapters deal with mitochondrial oxidative stress and the role that the organelle plays in cell signaling and cell death Discussions will be undertaken on the biochemistry of mitochondrial cell signaling including the nature of the proteins engaged in these processes many of them only recently discovered Later chapters examine the role of mitochondria and mitochondrial abnormalities in cardiovascular diseases including their diagnosis therapeutic options currently available animal models of mitochondrial disease and new frontiers in mitochondria cardiovascular medicine including areas of research that are relatively new or developing such as proteomics next generation sequencing and systems biology

Physiology of the Gastrointestinal Tract, Two Volume Set Hamid M. Said, 2012-07-04 Physiology of the

Gastrointestinal Tract Fifth Edition winner of a 2013 Highly Commended BMA Medical Book Award for Internal Medicine covers the study of the mechanical physical and biochemical functions of the GI Tract while linking the clinical disease or disorder bridging the gap between clinical and laboratory medicine The gastrointestinal system is responsible for the breakdown and absorption of various foods and liquids needed to sustain life Other diseases and disorders treated by clinicians in this area include food allergies constipation chronic liver disease and cirrhosis gallstones gastritis GERD hemorrhoids IBS lactose intolerance pancreatic appendicitis celiac disease Crohn s disease peptic ulcer stomach ulcer viral hepatitis colorectal cancer and liver transplants The new edition is a highly referenced and useful resource for gastroenterologists physiologists internists professional researchers and instructors teaching courses for clinical and research students 2013 Highly Commended BMA Medical Book Award for Internal Medicine Discusses the multiple processes governing gastrointestinal function Each section edited by preeminent scientist in the field Updated four color illustrations

Directory of Graduate Research American Chemical Society. Committee on Professional Training,2005 Faculties publications and doctoral theses in departments or divisions of chemistry chemical engineering biochemistry and pharmaceutical and or medicinal chemistry at universities in the United States and Canada

The Pituitary Shlomo Melmed,2010-12-09 The pituitary albeit a small gland is known as the master gland of the endocrine system and contributes to a wide spectrum of disorders diseases and syndromes Since the publication of the second edition of The Pituitary in 2002 there have been major advances in the molecular biology research of pituitary hormone production and action and there is now a better understanding of the pathogenesis of pituitary tumors and clinical syndromes resulting in perturbation of pituitary function There have also been major advances in the clinical management of pituitary disorders Medical researchers and practitioners now better understand the morbidity and mortality associated with pituitary hormone hyposecretion and hypersecretion Newly developed drugs and improved methods of delivering established drugs are allowing better medical management of acromegaly and prolactinoma These developments have improved the worldwide consensus around the definition of a cure for pituitary disease especially hormone hypersecretion and hence will improve the success or lack of success of various forms of therapy It is therefore time for a new edition of The Pituitary The third edition will continue to be divided into sections that summarize normal hypothalamic pituitary development and function hypothalamic pituitary failure and pituitary tumors additional sections will describe pituitary disease in systemic disorders and diagnostic procedures including imaging assessment of the eyes and biochemical testing The first chapter will be completely new placing a much greater emphasis on physiology and pathogenesis Two new chapters will be added on the Radiation and Non surgical Management of the Pituitary and Other Pituitary Lesions Other chapters will be completely updated and many new author teams will be invited The second edition published in 2002 and there have been incredible changes in both the research and clinical aspects of the pituitary over the past 8 years from new advances in growth hormones to pituitary tumor

therapy Presents a comprehensive translational source of information about the pituitary in one reference work Pituitary experts from all areas of research and practice take readers from the bench research cellular and molecular mechanism through genomic and proteomic analysis all the way to clinical analysis histopathology and imaging and new therapeutic approaches Clear presentation by endocrine researchers of the cellular and molecular mechanisms underlying pituitary hormones and growth factors as well as new techniques used in detecting lesions within the organ and other systemic disorders Clear presentation by endocrinologists and neuroendocrine surgeons of how imaging assessment of the eyes and biochemical testing can lead to new therapeutic approaches *Handbook of College Science Teaching* Joel J. Mintzes,2006

The Handbook offers models of teaching and learning that go beyond the typical lecture laboratory format and provides rationales for new practices in the college classroom It is ideal for graduate teaching assistants senior faculty and graduate coordinators and mid career professors in search of reinvigoration **MacSween's Pathology of the Liver E-Book**

Alastair D. Burt,Linda D. Ferrell,Stefan G Hubscher,Bernard C. Portmann,2011-08-30 MacSween s Pathology of the Liver delivers the expert know how you need to diagnose all forms of liver pathology using the latest methods Updated with all the most current knowledge and techniques this medical reference book will help you more effectively evaluate and interpret both the difficult and routine cases you see in practice Compare the specimens you encounter in practice to thousands of high quality images that capture the appearance of every type of liver disease Efficiently review all the key diagnostic criteria and differential diagnoses for each lesion Platelets Alan D. Michelson,2011-08-29 Platelets Second Edition is the

definitive current source of state of the art knowledge about platelets and covers the entire field of platelet biology pathophysiology and clinical medicine Recently there has been a rapid expansion of knowledge in both basic biology and the clinical approach to platelet related diseases including thrombosis and hemorrhage Novel platelet function tests drugs blood bank storage methods and gene therapies have been incorporated into patient care or are in development This book draws all this information into a single comprehensive and authoritative resource First edition won Best Book in Medical Science Award from the Association of American Publishers Contains fourteen new chapters on topics such as platelet genomics and proteomics inhibition of platelet function by the endothelium clinical tests of platelet function real time in vivo imaging of platelets and inherited thrombocytopenias A comprehensive full color reference comprising over 70 chapters 1400 pages and 16 000 references **Mini Reviews in Medicinal Chemistry** ,2009 Stress: Neuroendocrinology and Neurobiology

George Fink,2016-12-15 Stress Neuroendocrinology and Neurobiology Handbook of Stress Series Volume 2 focuses on neuroendocrinology the discipline that deals with the way that the brain controls hormonal secretion and in turn the way that hormones control the brain There have been significant advances in our understanding of neuroendocrine molecular and epigenetic mechanisms especially in the way in which stress induced hormonal and neurochemical changes affect brain plasticity neuronal connectivity and synaptic function The book features the topic of epigenetics and how it enables stress

and other external factors to affect genetic transmission and expression without changes in DNA sequence Integrated closely with new behavioral findings and relevance to human disorders the concepts and data in this volume offer the reader cutting edge information on the neuroendocrinology of stress Volume 2 is of prime interest to neuroscientists clinicians researchers academics and graduate students in neuroendocrinology neuroscience biomedicine endocrinology psychology psychiatry and in some areas of the social sciences including stress and its management in the workplace Includes chapters that offer impressive scope with topics addressing the neuroendocrinology and endocrinology of stress Presents articles carefully selected by eminent stress researchers and prepared by contributors that represent outstanding scholarship in the field Richly illustrated with explanatory figures and tables

Springer Handbook of Odor Andrea Büttner, 2017-02-28 The Springer Handbook of Odor is the definitive guide to all aspects related to the study of smell and their impact on human life For the first time this handbook aligns the senso chemo analytical characterization of everyday smells encountered by mankind with the elucidation of perceptual hedonic behavioral and physiological responses of humans to such odors From birth onwards we learn to interact with our environment using our sense of smell Moreover evolutionary processes have engendered a multi faceted communication that is supported even dominated by olfaction This compilation examines the responses of humans to odors at different stages of life thereby building a foundation for a widely overseen area of research with broader ramifications for human life The expert international authors and editor align aspects concepts methodologies and perspectives from a broad range of different disciplines related to the science of smell These include chemistry physiology psychology material sciences technology but also disciplines related to linguistics culture art and design This handbook edited by an internationally renowned aroma scientist with the support of an outstanding team of over 60 authors is an authoritative reference for researchers in the field of odors both in academia and in industry and is also a useful reference for newcomers to the area

Knobil and Neill's Physiology of Reproduction Ernst Knobil, 2006 The 3rd edition the first new one in ten years includes coverage of molecular levels of detail arising from the last decade s explosion of information at this level of organismic organization There are 5 new Associate Editors and about 2 3 of the chapters have new authors Chapters prepared by return authors are extensively revised Several new chapters have been added on the topic of pregnancy reflecting the vigorous investigation of this topic during the last decade The information covered includes both human and experimental animals basic principles are sought and information at the organismic and molecular levels are presented The leading comprehensive work on the physiology of reproduction Edited and authored by the world s leading scientists in the field Is a synthesis of the molecular cellular and organismic levels of organization Bibliographies of chapters are extensive and cover all the relevant literature

Reagents for Radical and Radical Ion Chemistry David Crich, 1999 Radicals and radical ions are important intermediates with wide use in organic synthesis The first book to concentrate on reagents for the creation and use of radicals and radical ions this new volume in the Handbooks of Reagents for Organic

Synthesis series compiles articles taken from the e eros database on reagents for use in radical and radical chemistry to help the chemist in the lab choose the right reagents Reflecting the enormous growth of radical chemistry over the past ten years this is an essential guide for all synthetic chemists *Apoptosis, Senescence and Cancer* David A. Gewirtz, Shawn E. Holt, Steven Grant, 2007-10-23 Apoptosis Senescence and Cancer provides insight into established practices and research into apoptosis and senescence by thoroughly examining novel and emerging techniques and research in the fields of cell death pathways senescence growth arrest drugs and resistance DNA damage response and other topics which still hold mysteries for researchers The volume is divided into six easy to follow sections The first is Apoptosis and Alternative Modes of Cell Death followed by chapters on Telomeres and Telomerase Senescence Genomic Instability and Tumorigenesis The third part covers DNA Damage Response Signaling Pathways and Tumorigenesis while the fourth delves into Resistance and Sensitization The book concludes with Established Cancer Therapies and a section which looks toward the future with Recent and Developing Cancer Therapies In total this volume provides basic scientists and clinicians with a deeper and more complete understanding of the cellular responses of malignancies which may determine the effectiveness of treatment both in the initial stages of the disease as well as in disease recurrence

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