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Designing Microwave Sensors for Glucose Concentration Detection in Aqueous and Biological Solutions Feb 25 2023 This book presents a comprehensive study covering the design and application of microwave sensors for glucose concentration detection, with a special focus on glucose concentration tracking in watery and biological solutions. This book is based on the idea that changes in the glucose concentration provoke variations in the dielectric permittivity of the medium. Sensors whose electrical response is sensitive to the dielectric permittivity of the surrounding media should be able to perform as glucose concentration trackers. At first, this book offers an in-depth study of the dielectric permittivity of water–glucose solutions at concentrations relevant for diabetes purposes; in turn, it presents guidelines for designing suitable microwave resonators, which are then tested in both water–glucose solutions and multi-component human blood plasma solutions for their detection ability and sensitivities. Finally, a portable version is developed and tested on a large number of individuals in a real clinical scenario. All in all, the book reports on a comprehensive study on glucose monitoring devices based on microwave sensors. It covers in depth the theoretical background, provides extensive design guidelines to maximize sensitivity, and validates a portable device for applications in clinical settings.
Heat of Solution as a Control of Aqueous-ammonia Concentration Feb 13 2022 A process-control loop for the preparation of aqueous ammonia solutions has been devised and tested. The control is based on the relation between the heat evolved as ammonia gas dissolves in water and the concentration of the resulting solution. Thus, the difference in temperature of a water stream before and after the addition of ammonia gas is employed to control the rate of addition of the gas. Satisfactory control has been demonstrated with ammonia gas of fluctuating temperature and pressure, both when the water flowrate was constant and the solution concentration was varied and when the flowrate was varied and the solution concentration constant. The control loop is neater and therefore cheaper than the conventional method that employs flow ratio control of the gaseous ammonia and water streams.
Australian Journal of Chemistry Sep 27 2020
Ion Flux in Pulmonary Vascular Control Aug 27 2020 6 Ions can pass through a single membrane channel at a rate of 10 ions/second. Over the last decade the ability to measure ion flux so precisely and to document the opening and closing of individual ion channels has provided a powerful tool to those working on smooth muscle physiology and vascular reactivity. The use of potassium channel blockers by Tom Lloyd in the 1960s and calcium channel blockers by Ivan McMurtry in the 1970s indicated the importance of ion flux in regulating pulmonary vascular tone. Recent advances in technology. principally the patch-clamp technique and fluorescent ion-sensitive dyes. now permit a more detailed description of physiologic mechanisms. This volume arises from the Sixth Grover Conference on the Pulmonary Circulation. a NATO Advanced Research Workshop. held in Colorado in October 1992. A group of international sCientists who are leaders in the field of ion flux focused their attention on the problems of the pulmonary vasculature. The chapters in this book describe the present state of knowledge of the movement and storage of ions in vascular endothelial and smooth muscle cells. Those who are not familiar with the techniques of patch clamping and calcium imaging will find an introduction to these methods in the chapters by Leblanc and Wan and Archer et al. The role of potassium channels in oxygen sensing illustrates the rapid progress which the study of ion currents has made possible.
Determination of Nuclide Concentrations in Solutions Containing Low Levels of Jul 18 2022
Veterinary Medicine - E-BOOK Nov 29 2020 Treat the diseases affecting large animals! Veterinary Medicine, 11th Edition provides up-to-date information on the diseases of horses, cattle, sheep, goats, and pigs. Comprehensive coverage includes the principles of clinical examination and making a diagnosis, along with specific therapy recommendations. For easier use, this edition has been divided into two volumes and restructured into a logical, anatomically based approach to disease. From internationally known veterinary experts Peter Constable, Kenneth Hinchcliff, Stanley Done, and Walter Grünberg, this book is the definitive, one-stop reference for farm animal and equine care. Comprehensive coverage includes information

essential to any large-animal veterinarian, especially those working with horses, cattle, sheep, goats, or pigs. Coverage of diseases addresses major large-animal diseases of all countries, including foreign animal and emerging diseases. User-friendly format makes it easier to quickly absorb key information. Quick review/synopsis sections make important information on complex diseases easy to find. NEW! Convenient, easy-access format is organized by organ systems, and divides the content into two compact volumes with the same authoritative coverage. Nearly 200 new color photographs and line drawings are included in this edition. NEW full-color design improves navigation, clarifies subject headings, and includes more boxes, tables, and charts for faster reference. New Diseases Primarily Affecting the Reproductive System chapter is added. Updated and expanded chapter on pharmacotherapy lists therapeutic interventions and offers treatment boxes and principles of antibiotic use. Expanded sections on herd health include biosecurity and infection control, and valuable Strength of Evidence boxes. NEW or extensively revised sections include topics such as the Schmallenberg and Bluetongue viral epidemics of ruminants in Europe, Wesselbron disease in cattle, hypokalemia in adult cattle, equine multinodular pulmonary fibrosis, Hendra virus infection, porcine reproductive and respiratory syndrome, torque teno virus, and numerous recently identified congenital and inherited disorders of large animals. Additional content is provided on lameness in cattle and the diseases of cervids.

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Agricultural and Biological Chemistry Mar 14 2022

Mathematical Methods in Chemical and Biological Engineering Mar 02 2021 Mathematical Methods in Chemical and Biological Engineering describes basic to moderately advanced mathematical techniques useful for shaping the model-based analysis of chemical and biological engineering systems. Covering an ideal balance of basic mathematical principles and applications to physico-chemical problems, this book presents examples drawn from recent scientific and technical literature on chemical engineering, biological and biomedical engineering, food processing, and a variety of diffusional problems to demonstrate the real-world value of the mathematical methods. Emphasis is placed on the background and physical understanding of the problems to prepare students for future challenging and innovative applications.

Effect of Ion Concentrations on Uranium Absorption from Sodium Carbonate Solutions Mar 26 2023

Concentration and Control; a Solution of the Trust Problem in the United States Sep 20 2022 This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

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