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### KEY=AND - MAYS LARSEN

**Handbook of Solvents, Volume 1 Volume 1: Properties Elsevier** Solvents are used in nearly all industries, from cosmetics to semiconductors, and from biotechnology research to iron and steel production. This book is a comprehensive and extensive textual analysis of the principles of solvent selection and use. It is a balanced presentation of solvent performance, processing characteristics, and environment and health issues. The book is intended to help formulators select ideal solvents, safety coordinators to protect workers, legislators and inspectors to define and implement technically correct public safeguards on solvent use, handling, and disposal. The third edition contains the most recent findings and trends in the solvent application. This volume, together with Vol. 2: Use, Health & Environment, Databook of Green Solvents, and Databook of Solvents, contains the most comprehensive, and up to date information ever published on solvents. Each chapter in this volume is focused on a specific aspect of solvent properties which determine its selection, such as effect on properties of solutes and solutions, properties of different groups of solvents and the summary of their applications' effect on health and environment (given in tabulated form), swelling of solids in solvents, solvent diffusion and drying processes, nature of interaction of solvent and solute in solutions, acid-base interactions, effect of solvents on spectral and other electronic properties of solutions, effect of solvents on rheology of solution, aggregation of solutes, permeability, molecular structure, crystallinity, configuration, and conformation of dissolved high molecular weight compounds, methods of application of solvent mixtures to enhance the range of their applicability, and effect of solvents on chemical reactions and reactivity of dissolved substances. Provides key insights that will help engineers and scientists select the best solvent for the job Includes practical information and ideas on how to improve existing processes involving solvents Brings together a selection of authors who are specialists in their areas Presents the latest advances in solvent technology and their applications **Pediatric Nephrology in the ICU Springer Science & Business Media** The responsibilities of the Pediatric Nephrologist in the Nephrologist and other involved specialists is vital to critical care setting are multifaceted. Management of optimize the outcome for each individual child. acute renal failure with and without renal replacement In this first edition of the book, we have included therapy, fluid and electrolyte abnormalities and hyper- chapters focused on general topics in pediatric nephro- tensive emergencies are only some of the major clinical ogy that are most germane to the care of the critically circumstanced where the renal specialist is involved in ill child. We have tried to look at the clinical situations the care of children admitted to the Pediatric Intensive from the aspect of both the Pediatric Intensivist and Care Unit. Due to the complex and specialized care renal specialist. We hope that this book will supply the required, critical care nephrology could even be consid- medical providers with a framework to approach the ered a separate entity compared to the clinical scenar- challenges faced in practicing Pediatric Intensive Care ios treated in the outpatient setting or on the inpatient Nephrology. pediatric ward. **Natural and Enhanced Attenuation of Contaminants in Soils, Second Edition CRC Press** Natural attenuation has become an effective and low-cost alternative to more expensive engineered remediation. This new edition updates the principles and fundamentals of natural attenuation of contaminants with a broader view of the field. It includes new methods for evaluating natural attenuation mechanisms and microbial activity at the lab and field scales. Case studies, actual treatments and protocols, theoretical processes, case studies, numerical models, and legal aspects in the natural attenuation of organic and inorganic contaminants are examined. Challenges and future directions for the implementation of natural attenuation and enhanced remediation techniques are also considered. **Pediatric Critical Care E-Book Elsevier Health Sciences** Still the #1 resource for today's pediatric ICU teams, Pediatric Critical Care, 5th Edition covers the entire field, from basic science to cutting-edge clinical applications. Drs. Bradley P. Fuhrman and Jerry J. Zimmerman, accompanied by an expert team of editors and contributors from around the world, bring you today's best information on the current and future landscape of pediatric critical care so you can consistently deliver optimum care to your young patients. Boasts highly readable, concise chapters with hundreds of useful photos, diagrams, algorithms, and clinical pearls. Clear, logical, organ-system approach allows you to focus on the development, function, and treatment of a wide range of disease entities. Includes new content on the expanding use of ultrasound at the bedside and the increase in nursing responsibilities in the PICU. Eighteen new chapters cover topics such as delirium, metabolism, endocrinology, nutrition, nursing, and much more. Features expanded and updated information on critical communication, professionalism, long-term outcomes, palliative care, ultrasonography, PCCM in resource-limited settings, ventilator-induced lung injury, non-invasive ventilation, updated CNS pathophysiology, the 'Erythron', and immunity and infection. **Stewart's Textbook of Acid-Base Lulu Press, Inc** "If you have ever been confused by traditional acid-base teaching and want a deeper and practical understanding of the subject, this is the book for you! You will be rewarded." -- Acid-Base balance is pivotal in medicine and the biosciences. Almost 30 years ago, Peter A Stewart introduced his approach to acid-base which has now become the method of choice. This textbook incorporates his original publication, complemented by over 20 new chapters. These discuss recent developments in acid-base medicine using the same clear and concise style. There is extensive focus on practical clinical application of the Stewart approach. Highly recommended for everyone that seeks to understand, apply or practice acid-base medicine and physiology. This includes consultants, fellows and residents in critical care medicine, anesthesiology, internal medicine, emergency medicine and surgery; physicians in other branches of medicine; physiologists; veterinarians; bioscientists; and medical students. **Handbook of Blood Gas/Acid-Base Interpretation Springer Science & Business Media** Handbook of Blood Gas/Acid-Base Interpretation, 2nd edition, simplifies concepts in blood gas/acid base interpretation and explains in an algorithmic fashion the physiological processes for managing respiratory and metabolic disorders. With this handbook, medical students, residents, nurses, and practitioners of respiratory and intensive care will find it possible to quickly grasp the principles underlying respiratory and acid-base physiology, and apply them. Uniquely set out in the form of flow-diagrams/algorithms charts, this handbook introduces concepts in a logically organized sequence and gradually builds upon them. The treatment of the subject in this format, describing processes in logical steps makes it easy for the reader to cover a difficult- and sometimes dreaded- subject rapidly. **Advanced Excel for Scientific Data Analysis Oxford University Press, USA** Excel is by far the most widely distributed data analysis software but few users are aware of its full powers. Advanced Excel For Scientific Data Analysis takes off from where most books dealing with scientific applications of Excel end. It focuses on three areas-least squares, Fourier transformation, and digital simulation-and illustrates these with extensive examples, often taken from the literature. It also includes and describes a number of sample macros and functions to facilitate common data analysis tasks. These macros and functions are provided in uncompiled, computer-readable, easily modifiable form; readers can therefore use them as starting points for making their own personalized data analysis tools. Detailed descriptions and sample applications of standard and specialized uses of least squares for fitting data to a variety of functions, including resolving multi-component spectra; standard processes such as calibration curves and extrapolation; custom macros for general "error" propagation, standard deviations of Solver results, weighted or equidistant least squares, Gram-Schmidt orthogonalization, Fourier transformation, convolution and deconvolution, time-frequency analysis, and data mapping. There are also worked examples showing how to use centering, the covariance matrix, imprecision contours, and Wiener filtering and custom functions for bisections, Lagrange interpolation, Euler and Runge-Kutta integration. **Principles of Quantitative Chemical Analysis McGraw-Hill Science, Engineering & Mathematics** Designed for a sophomore/junior course in analytical chemistry or quantitative analysis, this text focuses on the quantitative aspects of the discipline using a unified approach. Emphasis is placed on developing visual tools for understanding complicated solution equilibria. To these ends, extensive use is made of graphical methods, such as the easily sketched stick diagrams, which can be used to guide analytical calculations and takes the guesswork out of numerical approximations. Optional spreadsheet exercises are closely integrated with the text and can therefore serve to introduce the student to the use of computers for chemical calculations. **The Fitness of the Environment An Inquiry Into the Biological Significance of the Properties of Matter Modern Analytical Chemistry McGraw-Hill Science, Engineering & Mathematics** Modern Analytical Chemistry is a one-semester introductory text that meets the needs of all instructors. With coverage in both traditional topics and modern-day topics, instructors will have the flexibility to customize their course into what they feel is necessary for their students to comprehend the concepts of analytical chemistry. **Oxford Textbook of Fundamentals of Surgery Oxford University Press Basic Feedback Controls in Biomedicine Morgan & Claypool Publishers** This textbook is intended for undergraduate students (juniors or seniors) in Biomedical Engineering, with the main goal of helping these students learn about classical control theory and its application in physiological systems. In addition, students should be able to apply the Laboratory Virtual Instrumentation Engineering Workbench (LabVIEW) Controls and Simulation Modules to mammalian physiology. The first four chapters review previous work on differential equations for electrical and mechanical systems. Chapters 5 through 8 present the general types and characteristics of feedback control systems and foot locus, frequency response, and analysis of stability and margins. Chapters 9 through 12 cover basic LabVIEW programming, the control module with its pallets, and the simulation module with its pallets. Chapters 13 through 17 present various physiological models with several LabVIEW control analyses. These chapters cover control of the heart (heart rate, stroke volume, and cardiac output), the vestibular system and its role in governing equilibrium and perceived orientation, vestibulo-ocular reflex in stabilizing an image on the surface of the retina during head movement, mechanical control models of human gait (walking movement), and the respiratory control model. The latter chapters (Chapters 13-17) combine details from my class lecture notes in regard to the application of LabVIEW control programming by the class to produce the control virtual instruments and graphical displays (root locus, Bode plots, and Nyquist plot). This textbook was developed in cooperation with National Instruments personnel. Table of Contents: Electrical System Equations / Mechanical Translation Systems / Mechanical Rotational Systems / Thermal Systems and Systems Representation / Characteristics and Types of Feedback Control Systems / Root Locus / Frequency Response Analysis / Stability and Margins / Introduction to LabVIEW / Control Design in LabVIEW / Simulation in LabVIEW / LabVIEW Control Design and Simulation Exercise / Cardiac Control / Vestibular Control System / Vestibulo-Ocular Control System / Gait and Stance Control System / Respiratory Control System **Oxford Textbook of Cardiothoracic Anaesthesia Oxford Textbook in Anaesthesia** Part of the Oxford Textbooks in Anaesthesia series, this title covers the anatomy and physiology, pharmacology, post-operative complications, critical care, and all clinical aspects of cardiac and thoracic anaesthesia. Practical aspects, such as team working, and designing and equipping cardiothoracic theatre and critical care, are also included. The expert and international author team use their experience to ensure this title reflects current world-wide practice across the globe. **The History of Blood Gases, Acids and Bases Oxford Textbook of Critical Care Oxford University Press** Now in paperback, the second edition of the Oxford Textbook of Critical Care addresses all aspects of adult intensive care management. Taking a unique problem-orientated approach, this is a key resource for clinical issues in the intensive care unit. **Time's Arrow and Evolution Princeton Legacy Library** In a book that has become a milestone of scientific writing Dr. Blum uses "time's arrow," the second law of thermodynamics, as a key concept to show how the nature and evolution of the nonliving world place limits on the nature and evolution of life. He seeks to show that, from the beginning of the universe, physical and chemical laws have inexorably channeled the course of evolution so that possibilities were already limited when life first emerged. Originally published in 1951. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905. **Essentials of Pharmaceutical Chemistry Pharmaceutical Press** An introduction to pharmaceutical chemistry for undergraduate pharmacy, chemistry and medicinal chemistry students. Essentials of Pharmaceutical Chemistry is a chemistry introduction that covers all of the core material necessary to provide an understanding of the basic chemistry of drug molecules. Now a core text on many university courses, it contains numerous worked examples and problems. The 4th edition includes new chapters on Chromatographic Methods of Analysis, and Medicinal Chemistry - The Science of Drug Design. **Local Anaesthesia in Dentistry John Wiley & Sons** Local Anaesthesia in Dentistry is a practical guide for both students and general practitioners to this essential area of clinical practice. Highly illustrated in full colour throughout, the book provides clear and practical guidance to the administration of local anaesthesia. The book introduces the reader to the concept of nerve conduction and pain as well as providing an explanation of the anatomy of the trigeminal nerve. Further chapters cover such key areas of practice as regional anaesthesia, local anaesthesia in children, pharmacology, local and systemic complications, general practical aspects, the prevention of side effects and legal aspects. **Understanding Acid-base Lippincott Williams & Wilkins** cid-base is a key aspect of health care which must be learned by all medical students and residents. Yet it is a complex subject and can be difficult to learn. This text is the first teaching resource devoted to acid-base, with

clear and detailed explanations, carefully structured to enhance cumulative learning, step by step. By placing the concepts in a direct and personal teaching style, the author has made this vital subject truly understandable to the broad audience of students responsible for mastering it. Lecturers - Click here to order a FREE Review Copy of this title !

**Isotachopheresis Theory, Instrumentation and Applications Elsevier** Isotachopheresis **The Acid-base Status of the Blood Polymer Translocation CRC Press** Polymer translocation occurs in many biological and biotechnological phenomena where electrically charged polymer molecules move through narrow spaces in crowded environments. Unraveling the rich phenomenology of polymer translocation requires a grasp of modern concepts of polymer physics and polyelectrolyte behavior. Polymer Translocation discusses universal features of polymer translocations and summarizes the key concepts of polyelectrolyte structures, electrolyte solutions, ionic flow, mobility of charged macromolecules, polymer capture by pores, and threading of macromolecules through pores. With approximately 150 illustrations and 850 equations, the book: Avoids heavy mathematics Uses examples to illustrate the richness of the phenomenon Introduces the entropic barrier idea behind polymer translocation Outlines conceptual components necessary for a molecular understanding of polymer translocation Provides mathematical formulas for the various quantities pertinent to polymer translocation The challenge in understanding the complex behavior of translocation of polyelectrolyte molecules arises from three long-range forces due to chain connectivity, electrostatic interactions, and hydrodynamic interactions. Polymer Translocation provides an overview of fundamentals, established experimental facts, and important concepts necessary to understand polymer translocation. Readers will gain detailed strategies for applying these concepts and formulas to the design of new experiments. **Holographic Sensors Springer** This thesis presents a theoretical and experimental approach for the rapid fabrication, optimization and testing of holographic sensors for the quantification of pH, organic solvents, metal cations, and glucose in solutions. Developing non-invasive and reusable diagnostics sensors that can be easily manufactured will support the monitoring of high-risk individuals in any clinical or point-of-care setting. Sensor fabrication approaches outlined include silver-halide chemistry, laser ablation and photopolymerization. The sensors employ off-axis Bragg diffraction gratings of ordered silver nanoparticles and localized refractive index changes in poly (2-hydroxyethyl methacrylate) and polyacrylamide films. The sensors exhibited reversible Bragg peak shifts, and diffracted the spectrum of narrow-band light over the wavelength range  $\lambda_{\text{peak}} \approx 495\text{-}1100\text{ nm}$ . Clinical trials of glucose sensors in the urine samples of diabetic patients demonstrated that they offer superior performance compared to commercial high-throughput urinalysis devices. Lastly, a generic smartphone application to quantify colorimetric tests was developed and tested for both Android and iOS operating systems. The sensing platform and smartphone application may have implications for the development of low-cost, reusable and equipment-free point-of-care diagnostic devices. **Aulton's Pharmaceuticals The Design and Manufacture of Medicines Elsevier Health Sciences** Pharmaceuticals is one of the most diverse subject areas in all of pharmaceutical science. In brief, it is concerned with the scientific and technological aspects of the design and manufacture of dosage forms or medicines. An understanding of pharmaceuticals is therefore vital for all pharmacists and those pharmaceutical scientists who are involved with converting a drug or a potential drug into a medicine that can be delivered safely, effectively and conveniently to the patient. Now in its fourth edition, this best-selling textbook in pharmaceuticals has been brought completely up to date to reflect the rapid advances in delivery methodologies by eye and injection, advances in drug formulations and delivery methods for special groups (such as children and the elderly), nanomedicine, and pharmacognosy. At the same time the editors have striven to maintain the accessibility of the text for students of pharmacy, preserving the balance between being a suitably pitched introductory text and a clear reflection of the state of the art. provides a logical, comprehensive account of drug design and manufacture includes the science of formulation and drug delivery designed and written for newcomers to the design of dosage forms New to this edition New editor: Kevin Taylor, Professor of Clinical Pharmacy, School of Pharmacy, University of London. Twenty-two new contributors. Six new chapters covering parenteral and ocular delivery; design and administration of medicines for the children and elderly; the latest in plant medicines; nanotechnology and nanomedicines, and the delivery of biopharmaceuticals. Thoroughly revised and updated throughout. **Absorption and Drug Development Solubility, Permeability, and Charge State John Wiley & Sons** Many times drugs work fine when tested outside the body, but when they are tested in the body they fail. One of the major reasons a drug fails is that it cannot be absorb by the body in a way to have the effect it was intended to have. Permeability, Solubility, Dissolution, and Charged State of Ionizable Molecules: Helps drug discovery professionals to eliminate poorly absorbable molecules early in the drug discovery process, which can save drug companies millions of dollars. Extensive tabulations, in appendix format, of properties and structures of about 200 standard drug molecules. **Chemical Sensors An Introduction for Scientists and Engineers Springer Science & Business Media** Research in the area of chemical and biochemical sensors and the development of respective applications is still growing rapidly. This book aims at instructing researcher and practitioners in both disciplines in a strictly systematic, interdisciplinary and practice-oriented way about the basic technology of chemical and biochemical sensors. This concise volume bridges the gap between the different "ways of thinking" in chemistry, physics and engineering. It provides a firm grounding for engineers, industrial and academic researcher in the field, for practitioners and novices as well as for advanced students. **Essential Anesthesia From Science to Practice Cambridge University Press** Essential Anesthesia is a concise, accessible introduction to anesthetic practice. Now in its second edition, it provides a thorough overview of the science and practice of anesthesia. Part I describes the evaluation of the patient, the different approaches to anesthesia, and the post-operative care of the patient in pain. Part II introduces the essentials of physiology and pharmacology and their role in understanding the principles of anesthesia. The final part presents a step-by-step description of 14 clinical cases. These clinical vignettes give a very real introduction to the practicalities of anesthesia and will give the non-anesthetist physician an idea of how to prepare a patient for a surgical procedure. All chapters have been expanded and updated and an entirely new chapter on safety in healthcare has been added. This is the perfect introductory text for medical students, junior doctors and all operating theatre and critical care staff. **A History of Chemical Theories and Laws Reproductive Medicine for the MRCOG Cambridge University Press** An authoritative account of infertility, covering clinical assessment, management and the delivery and organisation of complex treatments. **Textbook of Organic Medicinal and Pharmaceutical Chemistry Lippincott Williams & Wilkins Clinical Pharmacy and Therapeutics** A practical guide for the treatment of common diseases, this updated edition includes the very latest information. It covers the treatment of disease by drug therapy and uses case studies to illustrate the application of the principles discussed **Principles of Medical Biochemistry E-Book Elsevier Health Sciences** For nearly 30 years, Principles of Medical Biochemistry has integrated medical biochemistry with molecular genetics, cell biology, and genetics to provide complete yet concise coverage that links biochemistry with clinical medicine. The 4th Edition of this award-winning text by Drs. Gerhard Meisenberg and William H. Simmons has been fully updated with new clinical examples, expanded coverage of recent changes in the field, and many new case studies online. A highly visual format helps readers retain complex information, and USMLE-style questions (in print and online) assist with exam preparation. Just the right amount of detail on biochemistry, cell biology, and genetics - in one easy-to-digest textbook. Full-color illustrations and tables throughout help students master challenging concepts more easily. Online case studies serve as a self-assessment and review tool before exams. Online access includes nearly 150 USMLE-style questions in addition to the questions that are in the book. Glossary of technical terms. Clinical Boxes and Clinical Content demonstrate the integration of basic sciences and clinical applications, helping readers make connections between the two. New clinical examples have been added throughout the text. **The pH Miracle Balance Your Diet, Reclaim Your Health Hachette UK** Forget counting calories, fat grams, and cholesterol. Forget blood pressure, blood sugar, and hormone levels. The single most important health measurement is the pH level in your blood. Now, The pH Miracle unlocks the surprisingly crucial role pH balance plays in weight loss. How acidic or alkaline your blood is (pH levels) directly affects your health and is controlled by diet. For example, if the blood becomes overly acidic from eating too much of the wrong kinds of food -- wheat, bananas, meats, and cheese -- it can lead to weight gain, diabetes, heart disease, cancer, and more. The Youngs' program includes over 50 recipes and explains which foods to eat, which to avoid, and which supplements can help on the way towards optimal health and weight loss. In just weeks, readers will find they have more energy and a stronger immune system, and will have shed pounds and inches. **Metabolism and Medicine The Physics of Biological Engines (Volume 1) CRC Press** Chronic disease states of aging should be viewed through the prism of metabolism and biophysical processes at all levels of physiological organization present in the human body. This book describes the building blocks of understanding from a reasonable but not high-level technical language viewpoint, employing the perspective of a clinical physician. It brings together concepts from five specific branches of physics relevant to biology and medicine, namely, biophysics, classical electromagnetism, thermodynamics, systems biology and quantum mechanics. Key Features: Broad and up-to-date overview of the field of metabolism, especially connecting the spectrum of topics that range from modern physical underpinnings with cell biology to clinical practice. Provides a deeper basic science and interdisciplinary understanding of biological systems that broaden the perspectives and therapeutic problem solving. Introduces the concept of the Physiological Fitness Landscape, which is inspired by the physics of phase transitions This first volume in a two-volume set, primarily targets an audience of clinical and science students, biomedical researchers and physicians who would benefit from understanding each other's language. **Handbook of Respiratory Care Jones & Bartlett Publishers** Handbook of Respiratory Care, Third Edition of this comprehensive resource compiles a wide variety of data relevant to the care of patients with respiratory disorders as well as current research in pulmonary physiology. Data from many sources in the fields of medicine, pharmacology, physics, mathematics, and engineering are brought together in this handy reference. Important Notice: The digital edition of this book is missing some of the images or content found in the physical edition. **QM/MM Studies of Light-responsive Biological Systems Springer Nature** This book, a consecutive contribution to the series Challenges and Advances in Computational Chemistry and Physics, focuses on understanding the photoinduced processes in biological systems. Understanding and fine control of light fate in molecules is vital for the progress of society and environmental safety. Light induced changes of various physico-chemical and spectroscopic properties in nucleic acids and proteins is the basis of fundamental biological events such as vision, DNA photodamage or photosensing. The investigation of these processes is challenging to both theoretical and experimental studies. This volume encompasses the quantum mechanics/molecular mechanics theory in several subfields, including: advanced computational methods for nucleic acids and proteins systems; dynamics, spectroscopic and physico-chemical properties of biological photoreceptors; DNA photodamage. This book is of interest to readers in both fundamental and application-oriented research by over-viewing recent achievements in computational modeling of excited states in nucleic acids and proteins. **Determination of PH Theory and Practice** In portraying the rise and fall, in eighteenth century Ireland and England, of Barry Lyndon - an adventurer-gambler, a cad and a romantic idealist - Kubrick departs from Thackeray's picaresque novel in scope and tone. The first person narrator of the novel gives way in the film to the third person who assumes a good deal of the storytelling function, adding to the sense of detachment and abstraction typical of Kubrick. The way that this film polarised the critics suggests that it may hold a key to his oeuvre. Enervating pictorialism or a stately meditation upon the trappings of cultural ritual that we call civilisation? The painterly tableaux suggest the 'otherness' of a past era - a world as alien as that of 2001 - in a way matched by few other period films. **Biology of Disease Garland Science** Biology of Disease describes the biology of many of the human disorders and disease that are encountered in a clinical setting. It is designed for first and second year students in biomedical science programs and will also be a highly effective reference for health science professionals as well as being valuable to students beginning medical school. Real cases are used to illustrate the importance of biology in understanding the causes of diseases, as well as in diagnosis and therapy. **Arterial Blood Gases Made Easy E-Book Elsevier Health Sciences** Arterial blood gas (ABG) analysis is a fundamental skill in modern medicine yet one which many find difficult to grasp. This book provides readers with the core background knowledge required to understand the ABG, explains how it is used in clinical practice and provides a unique system for interpreting results. Over half of the book is devoted to thirty clinical case scenarios involving analysis of arterial blood gases, allowing the reader to gain both proficiency in interpretation and an appreciation of the role of an ABG in guiding clinical diagnosis and management. A practical guide written for all those who use this test and have to interpret the results. Utilises worked examples to allow the reader to gain confidence in interpreting ABGs and appreciate the usefulness of the test in a variety of different clinical settings. Written in a simple style and presents the concepts in a straightforward manner. Additional clinical case scenarios put the ABG into practice. **Pharmaceutical Calculations**