

# International Series Of Monographs On Pure And Applied Biology

## Volume 11 Leeches Hirundinea Their Structure

*International Series of Monographs on Pure and Applied Biology* **International series of monographs in pure and applied biology** **International Series of Monographs in Pure and Applied Biology** **International Series of Monographs in Pure and Applied Biology** International Series of Monographs on Pure and Applied Biology International Series of Monographs in Pure and Applied Mathematics **Coronary Vasodilators** *Boundary Value Problems Aspects of the Origin of Life* **Bibliotheca mathematica : a series of monographs on pure and applied mathematics** *Mathematical Foundations of Thermodynamics* *The Vegetation of Poland* An Introduction to Mathematical Analysis **A Course of Higher Mathematics** *Bibliotheca mathematica Higher Order Derivatives* *Lepidoptera Genetics* **Integral Matrices** **The Control of Chromatophores** Utilization of Nutrients During Postnatal Development Perspectives in Zoology *Photochemistry of Proteins and Nucleic Acids* **Physiology of Echinoderms** **Histoenzymology of the Endocrine Glands** **The Biology of Stentor** **The Biochemistry of Foreign Compounds** Current Catalog **New Serial Titles** *An introduction to transform theory* Dictionary Catalog of the National Agricultural Library *Conditional Measures and Applications* *Native Orchids of Trinidad and Tobago* Dictionary Catalog of the National Agricultural Library, 1862-1965 **Index of NLM Serial Titles** *The Chromatography of Steroids* *Pure and Applied Mathematics (Academic Press) (series on Order)*. Pure and applied Mathematics A Series Catalog *Introduction to Pharmaceutical Analytical Chemistry* **Author-title Catalogue**

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**International Series of Monographs in Pure and Applied Biology** Sep 03 2022

*Bibliotheca mathematica* Aug 22 2021

*Native Orchids of Trinidad and Tobago* Mar 05 2020 *Native Orchids of Trinidad and Tobago* provides detailed descriptions of the native species and varieties of orchids from Trinidad and Tobago. The Orchidaceae is the largest family of flowering plants with between 15,000 and 20,000 known species

and varieties in from 500 to 600 genera; and new ones are being discovered by almost every botanical expedition to tropical areas. In Trinidad and Tobago, the Orchidaceae is the second largest family of flowering plants in terms of number of species. The native species and varieties known at the present time number 181, and they belong to sixty-six genera. The genera are enumerated in strict phylogenetic sequence, in accord with SCHLECHTER'S system. The species are listed alphabetically under the genera. An attempt has been made throughout to indicate synonymy as completely as possible even to the inclusion of binomials, which have never been used in connection with the flora of Trinidad and Tobago. The description of each genus has for the most part been drawn up to cover the morphological limits shown by the concept throughout its entire geographic range, whereas the specific descriptions are usually based only upon material collected in Trinidad and Tobago.

*International Series of Monographs on Pure and Applied Biology* Nov 05 2022

*International Series of Monographs in Pure and Applied Mathematics* May 31 2022

Utilization of Nutrients During Postnatal Development Mar 17 2021 Utilization of Nutrients during Postnatal Development investigates the nutritional aspects of postnatal development, with emphasis on functions that in some way are closely connected to food, including food intake, digestion, transport, and metabolism. Topics covered range from energy sources and energy balance in starvation to the quantitative and qualitative aspects of food intake. The fate of carbohydrates in infant animals is also discussed, along with the metabolism of lipids during postnatal development. Comprised of eight chapters, this volume begins with an analysis of the most important differences between adult and suckling rats, paying particular attention to thermoregulation and the action of hormones in the early postnatal period. Subsequent chapters deal with the effect of starvation at two environmental temperatures on losses in body weight; protein as an energy source; the absorption of glucose from the gastrointestinal tract; and energy metabolism in the human fetus and newborn. The final chapter is devoted to the late effects of changes in diet composition during the weaning period. This book will be useful for students, practitioners, and researchers in physiology, biology, and developmental nutrition.

*Conditional Measures and Applications* Apr 05 2020 In response to unanswered difficulties in the generalized case of conditional expectation and to treat the topic in a well-deservedly thorough manner, M.M. Rao gave us the highly successful first edition of Conditional Measures and Applications. Until this groundbreaking work, conditional probability was relegated to scattered journal articles and

*The Vegetation of Poland* Nov 24 2021 International Series of Monographs in Pure and Applied Biology, Volume 9: The Vegetation of Poland focuses on the plant geography of Poland, including climate, hydrography, geology, and ecology. The selection first offers information on the historical outline of the development of plant geography and the factors affecting the geographical distribution of plants in Poland. Discussions focus on the development of phytogeographical cartography, floristic and ecological plant geography, and the climate, boundaries, land-relief, hydrography, and geology of Poland. The text then ponders on the influence of man and his economic activities on the vegetation of Poland and the floristic statistics and the elements of the Polish flora. The publication examines the terrestrial and fresh-water plant communities and vegetation of the Polish Baltic. Topics include composition and structure of plant communities and methods of their study, associations of coastal and inland dunes, aquatic and swamp associations, and the most important representatives of the benthic flora of the Polish Baltic. The manuscript is a dependable source of data for botanists and those concerned with the plant resources of nature, including agriculturists, horticulturists, and soil scientists.

**Bibliotheca mathematica : a series of monographs on pure and applied mathematics** Jan 27 2022

*Aspects of the Origin of Life* Feb 25 2022 Modern Trends in Physiological Sciences, Volume 6: Aspects of the Origin of Life presents the possible ways of the chemical evolution of the Earth's surface before the origination of life. This book examines the evolutionary aspects of the biochemistry of cells and organisms. Organized into 20 chapters, this volume begins with an overview of the conditions that characterized the physical state of the Earth during the earliest periods following its formation and development. This text then examines the content of elementary oxygen as the most remarkable aspect of the Earth's atmosphere. Other chapters consider the fundamental propositions concerning the biosphere, which is regarded as important to the geochemical processes of the Earth. This book discusses as well the history of the whole substance of Earth, which determines how far abiogenic synthesis could

proceed and what was the state of the Earth when life came into being. Biochemists and scientists will find this book useful.

**Coronary Vasodilators** Apr 29 2022 *Coronary Vasodilators* assesses the state of knowledge of the pharmacological effects, the mechanisms responsible for these effects, and the therapeutic importance of classical drugs as well as recent medications on which experimental and clinical investigations are still too few to allow of definite judgment. The book is organized into four chapters. Chapter I is devoted to the influences controlling coronary blood flow. Chapter II reviews the experimental methods commonly used in pharmacological research with a critical assessment of their possibilities and limitations. Chapter III discusses methods recommended by clinical research workers for evaluating the effectiveness of anti-anginal medications in the patient. Chapter IV describes pharmacology and clinical features of coronary vasodilators. The substances considered are grouped into four sections. The first contains the coronary vasodilator drugs actually used in cardiovascular therapeutics. The second consists of sympathicomimetic substances which modify general and local hemodynamic conditions profoundly and thus produce increased coronary flow. In the third section are brought together drugs used on man for particular therapeutic properties which have coronary vasodilator action, uncertain in the case of some, and which, for various reasons, cannot be used in the treatment of angina. The fourth section collects together a variety of substances, most of which are not drugs, reported in the literature as having vasodilator activity at coronary circulation level.

*Higher Order Derivatives* Jul 21 2021 The concept of higher order derivatives is useful in many branches of mathematics and its applications. As they are useful in many places,  $n$ th order derivatives are often defined directly. *Higher Order Derivatives* discusses these derivatives, their uses, and the relations among them. It covers higher order generalized derivatives, including the Peano, d.I.V.P., and Abel derivatives; along with the symmetric and unsymmetric Riemann, Cesàro, Borel, LP-, and Laplace derivatives. Although much work has been done on the Peano and de la Vallée Poussin derivatives, there is a large amount of work to be done on the other higher order derivatives as their properties remain often virtually unexplored. This book introduces newcomers interested in the field of higher order derivatives to the present state of knowledge. Basic advanced real analysis is the only required background, and, although the special Denjoy integral has been used, knowledge of the Lebesgue integral should suffice.

International Series of Monographs on Pure and Applied Biology Jul 01 2022

**Index of NLM Serial Titles** Jan 03 2020 A keyword listing of serial titles currently received by the National Library of Medicine.

An Introduction to Mathematical Analysis Oct 24 2021 *An Introduction to Mathematical Analysis* is an introductory text to mathematical analysis, with emphasis on functions of a single real variable. Topics covered include limits and continuity, differentiability, integration, and convergence of infinite series, along with double series and infinite products. This book is comprised of seven chapters and begins with an overview of fundamental ideas and assumptions relating to the field operations and the ordering of the real numbers, together with mathematical induction and upper and lower bounds of sets of real numbers. The following chapters deal with limits of real functions; differentiability and maxima, minima, and convexity; elementary properties of infinite series; and functions defined by power series. Integration is also considered, paying particular attention to the indefinite integral; interval functions and functions of bounded variation; the Riemann-Stieltjes integral; the Riemann integral; and area and curves. The final chapter is devoted to convergence and uniformity. This monograph is intended for mathematics students.

A Series Catalog Aug 29 2019

*The Chromatography of Steroids* Dec 02 2019 *The Chromatography of Steroids* details the fundamental concepts and underlying principles of laboratory techniques utilized in separating steroid mixtures. The text first covers the basic theory of chromatography, and then proceeds to tackling the chromatographic separation of steroids. Next, the selection details the techniques and apparatus employed in chromatography of steroids. Chapter IV talks about the colorimetric and radioisotopic techniques, while Chapter V deals with the structural analysis and identification of steroids by chromatography. The text also covers the typical analytical problems of steroid biochemistry. The book will be of great use to researchers who utilize chromatographic methods in their work with steroids.

**Author-title Catalogue** Jun 27 2019

**Physiology of Echinoderms** Dec 14 2020 Physiology of Echinoderms is an 11-chapter book that begins by elucidating the feeding, digestion, and excretion of specific echinoderms. The critical role of amoebocytes in the excretion process involved in these organisms is also explained. This book also describes several aspects of importance to these organisms, including salinity tolerance, osmoregulation, ionic regulation, chemical composition, neural control of locomotion, biochemical affinities, toxins, and immunology. The organisms' physiology in sensory, water vascular system, respiratory system, spawning, neurosecretion, nerves, and muscles are also explained.

*Lepidoptera Genetics* Jun 19 2021 Lepidoptera Genetics provides a systematic account of the genetics and karyology of Lepidoptera. Topics covered include the use of biometry in genetic studies; population genetics and polymorphism; the rise of industrial melanism; and the evolution of mimicry. The genetics of Rhopalocera and Heterocera is also discussed. This book is comprised of eight chapters and begins with an overview of Lepidoptera species and their genetics, paying particular attention to color and pigmentation, breeding, and resistance to insecticides, as well as the effect of seasonal variations and the environment on Lepidoptera. The next chapter outlines the tenets of genetics that are of value for Lepidoptera research, including particulate heredity, random assortment, sex-linked inheritance, maternal inheritance, and mosaicism. The reader is methodically introduced to the application of biometry to the study of Lepidoptera genetics; the evolution of mimicry in Lepidoptera; and the known heredity of Rhopalocera and Heterocera. The final chapter examines the karyology of Lepidoptera, focusing on the haploid karyotype, polyploidy, chiasmata frequency, supernumerary chromosomes, and sex chromatin. This monograph will be a useful resource for entomologists, geneticists, and biologists.

*Pure and Applied Mathematics (Academic Press) (series on Order)*. Oct 31 2019

**Histoenzymology of the Endocrine Glands** Nov 12 2020 International Series of Monographs in Pure and Applied Biology: Modern Trends in Physiological Sciences, Volume 35: Histoenzymology of the Endocrine Glands discusses various concerns in histochemically detectable enzymic activity in the endocrine glands. The title focuses on dealing with the endocrine glands relevant to the vascular system. The text first covers the diencephalic endocrine glands, and then proceeds to tackling the parathyroids and thyroid glands. Next, the selection talks about the enzymic activity in the islets of Langerhans. The text also discusses the adrenal gland, along with the enzymic activity of the gonads. The book will be of great use to students, researchers, and practitioners of endocrinology.

Dictionary Catalog of the National Agricultural Library May 07 2020

*An introduction to transform theory* Jun 07 2020 An introduction to transform theory

*Photochemistry of Proteins and Nucleic Acids* Jan 15 2021 Photochemistry of Proteins and Nucleic Acids focuses on the effects of ultraviolet and visible radiations on proteins and nucleic acids. The book first discusses some principles of photochemistry, including the laws of photochemistry and factors influencing photochemical reactions in solutions. The text describes absorption and luminescence spectra of nucleoproteins and their components, including principal absorbing groups in proteins, nucleic acids, and nucleoproteins. The selection also highlights the action of ultraviolet light on proteins; photochemical and photosensitized inactivation of enzymes; and the photochemistry of purine and pyrimidine derivatives. The text also discusses nucleic acids and oligo- and polynucleotides. Topics include photochemical degradation of nucleic acid; kinetics of biological inactivation of nucleic acids; nucleoproteins; and reversibility of nucleic acid photolysis. The book also encompasses the inactivation of viruses, including inactivation studies with a plant virus, bacteriophages, and photochemically produced vaccines. The text also presents some problems in photobiology and some techniques in photochemistry. The text is a good source of information for readers interested in the study of proteins and nucleic acids. Based on the standards and codes from Fo

*Introduction to Pharmaceutical Analytical Chemistry* Jul 29 2019 The definitive textbook on the chemical analysis of pharmaceutical drugs – fully revised and updated Introduction to Pharmaceutical Analytical Chemistry enables students to gain fundamental knowledge of the vital concepts, techniques and applications of the chemical analysis of pharmaceutical ingredients, final pharmaceutical products and drug substances in biological fluids. A unique emphasis on pharmaceutical laboratory practices, such as sample preparation and separation techniques, provides an efficient and practical educational

framework for undergraduate studies in areas such as pharmaceutical sciences, analytical chemistry and forensic analysis. Suitable for foundational courses, this essential undergraduate text introduces the common analytical methods used in quantitative and qualitative chemical analysis of pharmaceuticals. This extensively revised second edition includes a new chapter on chemical analysis of biopharmaceuticals, which includes discussions on identification, purity testing and assay of peptide and protein-based formulations. Also new to this edition are improved colour illustrations and tables, a streamlined chapter structure and text revised for increased clarity and comprehension. Introduces the fundamental concepts of pharmaceutical analytical chemistry and statistics Presents a systematic investigation of pharmaceutical applications absent from other textbooks on the subject Examines various analytical techniques commonly used in pharmaceutical laboratories Provides practice problems, up-to-date practical examples and detailed illustrations Includes updated content aligned with the current European and United States Pharmacopeia regulations and guidelines Covering the analytical techniques and concepts necessary for pharmaceutical analytical chemistry, *Introduction to Pharmaceutical Analytical Chemistry* is ideally suited for students of chemical and pharmaceutical sciences as well as analytical chemists transitioning into the field of pharmaceutical analytical chemistry.

*Boundary Value Problems* Mar 29 2022 *Boundary Value Problems* is a translation from the Russian of lectures given at Kazan and Rostov Universities, dealing with the theory of boundary value problems for analytic functions. The emphasis of the book is on the solution of singular integral equations with Cauchy and Hilbert kernels. Although the book treats the theory of boundary value problems, emphasis is on linear problems with one unknown function. The definition of the Cauchy type integral, examples, limiting values, behavior, and its principal value are explained. The Riemann boundary value problem is emphasized in considering the theory of boundary value problems of analytic functions. The book then analyzes the application of the Riemann boundary value problem as applied to singular integral equations with Cauchy kernel. A second fundamental boundary value problem of analytic functions is the Hilbert problem with a Hilbert kernel; the application of the Hilbert problem is also evaluated. The use of Sokhotski's formulas for certain integral analysis is explained and equations with logarithmic kernels and kernels with a weak power singularity are solved. The chapters in the book all end with some historical briefs, to give a background of the problem(s) discussed. The book will be very valuable to mathematicians, students, and professors in advanced mathematics and geometrical functions.

*Mathematical Foundations of Thermodynamics* Dec 26 2021 *Mathematical Foundations of Thermodynamics* details the core concepts of the mathematical principles employed in thermodynamics. The book discusses the topics in a way that physical meanings are assigned to the theoretical terms. The coverage of the text includes the mechanical systems and adiabatic processes; topological considerations; and equilibrium states and potentials. The book also covers Galilean thermodynamics; symmetry in thermodynamics; and special relativistic thermodynamics. The book will be of great interest to practitioners and researchers of disciplines that deal with thermodynamics, such as physics, engineering, and chemistry.

**International series of monographs in pure and applied biology** Oct 04 2022

*Pure and applied Mathematics* Sep 30 2019

**The Biochemistry of Foreign Compounds** Sep 10 2020 *The Biochemistry of Foreign Compounds* presents the various aspects of biochemistry of foreign compounds in relation to toxicology, pathology, and pharmacology. This book discusses the classification of foreign compounds according to usage, namely, food additives, drugs, pesticides, industrial chemicals, and natural foreign compounds. Organized into two sections encompassing 12 chapters, this book starts with the absorption and secretion of foreign compounds. This text then discusses the two phases of reaction in the metabolism of foreign compounds. Other chapters consider the rate at which each reaction proceeds wherein its relative significance may be affected by many factors that may result in changes in the pattern of metabolism and differences in toxicity. This book discusses as well the physiological factors that affect metabolism, including age, sex, pregnancy, disease, and the nutritional state of the animal. The final chapter deals with the metabolism of some of the commonly used industrial chemicals. This book is a valuable resource for biochemists, chemists, toxicologists, pharmacologists, and pathologists.

**The Control of Chromatophores** Apr 17 2021 *The Control of Chromatophores* focuses on the color changes in animals, particularly among the invertebrates. Cells containing pigment that can disperse or concentrate, thereby changing the tint of the organism in which they lie, are known as

chromatophores. Well-developed, functional chromatophore systems are common among cephalopods, crustaceans, and poikilotherm vertebrates. Rare instances are found among other groups such as annelids, echinoderms, and insects. After an introduction to the types, chemistry, and functional significance of chromatophores, this text concentrates on the chromatophores of crustaceans, insects, cephalopods, echinoderms, and vertebrates. This book is recommended for students and biologists conducting work on chromatophores and color changes.

Dictionary Catalog of the National Agricultural Library, 1862-1965 Feb 02 2020

**A Course of Higher Mathematics** Sep 22 2021 International Series of Monographs in Pure and Applied Mathematics, Volume 62: A Course of Higher Mathematics, V: Integration and Functional Analysis focuses on the theory of functions. The book first discusses the Stieltjes integral. Concerns include sets and their powers, Darboux sums, improper Stieltjes integral, jump functions, Helly's theorem, and selection principles. The text then takes a look at set functions and the Lebesgue integral. Operations on sets, measurable sets, properties of closed and open sets, criteria for measurability, and exterior measure and its properties are discussed. The text also examines set functions, absolute continuity, and generalization of the integral. Absolutely continuous set functions; absolutely continuous functions of several variables; supplementary propositions; and the properties of the Hellinger integral are presented. The text also focuses on metric and normed spaces. Separability, compactness, linear functionals, conjugate spaces, and operators in normed spaces are underscored. The book also discusses Hilbert space. Linear functionals, projections, axioms of the space, sequences of operators, and weak convergence are described. The text is a valuable source of information for students and mathematicians interested in studying the theory of functions.

**New Serial Titles** Jul 09 2020 A union list of serials commencing publication after Dec. 31, 1949.

**International Series of Monographs in Pure and Applied Biology** Aug 02 2022

Current Catalog Aug 10 2020 First multi-year cumulation covers six years: 1965-70.

**Integral Matrices** May 19 2021 Integral Matrices

**The Biology of Stentor** Oct 12 2020 The Biology of Stentor summarizes all that has been learned about the biology of a certain group of ciliate protozoa: the stentors. Topics covered range from form and function in Stentor to behavior, fine structure, growth and division, and reorganization. Regeneration is also discussed, along with polarity, metabolism, genetics, and primordium development. This volume is comprised of 20 chapters and begins with a characterization of Stentor, with emphasis on its particular advantages in addressing general problems of biology. The reader is then introduced to form and function in Stentor, particularly *S. coeruleus*. The following chapters focus on the behavior (food selection, swimming, response to light, etc.) of stentors and the fine points of structure in terms of which this behavior is to be explained and which demonstrate the highly complex and precise achievements of morphogenesis. The remaining chapters explore growth and division in Stentor as well as the course of reorganization and regeneration; development of the oral primordium and how it is activated and inhibited; rate of regeneration in relation to the polar axis; fusion masses of whole stentors; and reconstitution in disarranged stentors. Various species of Stentor are also described, together with the techniques used to study them. The final chapter deals with hypotheses concerning the morphogenesis of ciliates. This book will be of interest to students and practitioners of biology and physiology.

Perspectives in Zoology Feb 13 2021 Perspectives in Zoology tries to discuss in a critical way some of the aspects of biology that lack perspective. The book also calls into attention the possibilities of obtaining a more correct view and challenges views that already have already been accepted by the scientific community. In this thought-provoking book, many questions are raised and different viewpoints and their implications are considered in the areas of natural history. Coverage includes the great ages of evolution; the primitive evolution in the eumatozoa; the morphological comparisons between homology and analogy; systematic serology and its principles; and the relationship of systemics, evolution, and phylogeny. The text is recommended for students and professors that deal with biology, zoology, genetics, and evolution who not only wish to explore and understand other approaches to popular theories in zoology, but also wish to be more familiarized and delve deeper with the common yet frequently discussed and debated topics in the field.