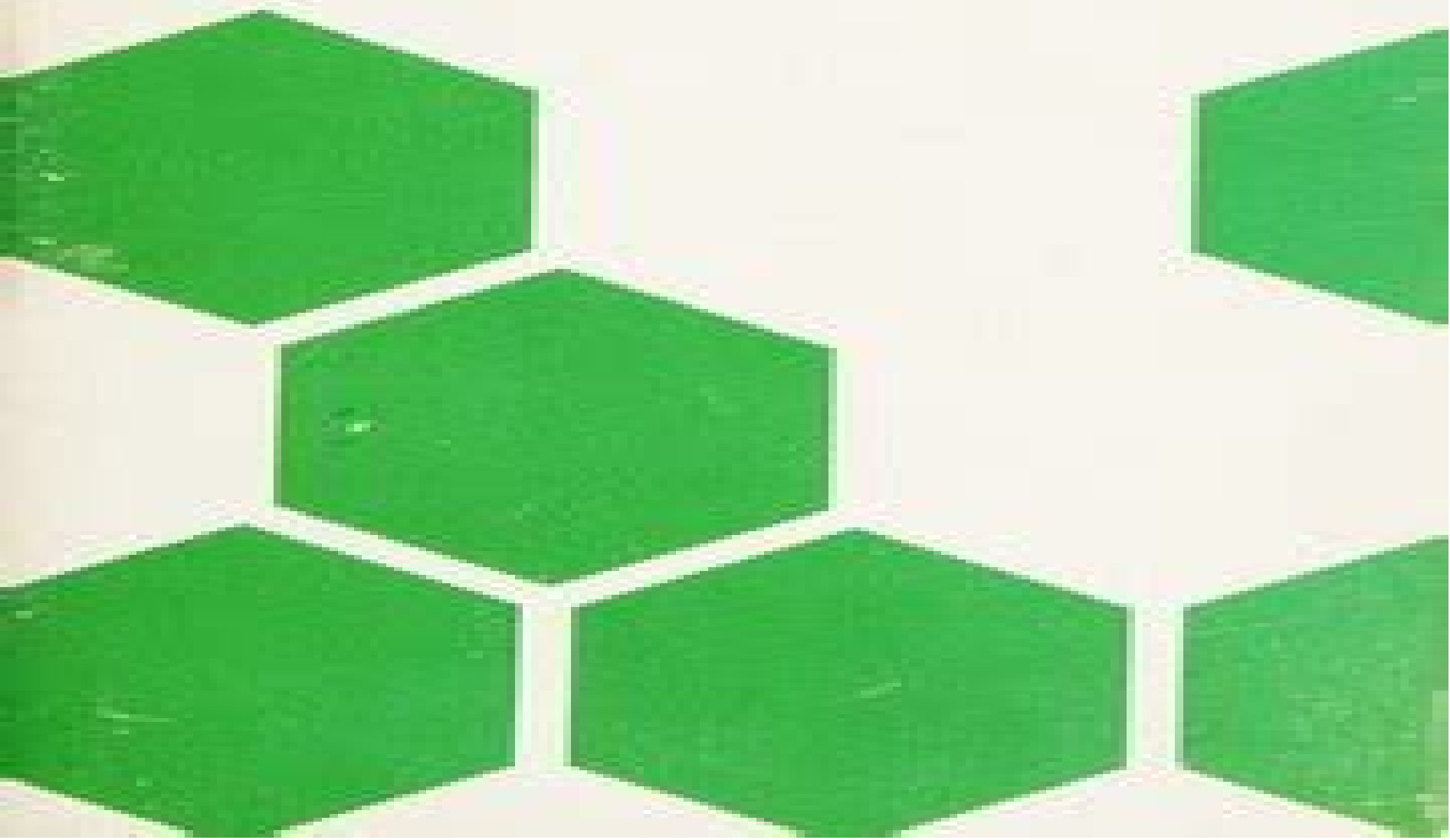


# **The Mathematical Approach to Physiological Problems**

**A Critical Primer  
Douglas Shepard Riggs**



# The Mathematical Approach To Physiological Problems A Critical Primer

**P. van den Driessche**



## **The Mathematical Approach To Physiological Problems A Critical Primer:**

*The Mathematical Approach to Physiological Problems* Douglas Shepard Riggs, 1963 With its formulations derived entirely from algebra and introductory calculus this primer takes as its central purpose the encouragement of high standards of mathematical conduct And yet the author is not so interested in fostering a formal elegance or abstract rigor as in imparting to the student a care for the definition of the problem the choice of units the avoidance of ambiguities and inner contradictions and as in instilling in him a feeling for dimensionality an awareness of the pitfalls of various techniques an appreciation for the habitual checking of derivations through numerical substitution Riggs adduces a number of examples from the open literature in which biologists of the highest standards of experimental exactness are shown presenting their careful data in mathematically inexact form As the mathematization of the biological sciences proceeds and accelerates it becomes even more important that definitions and derivations be as closely scrutinized as tissue sections and radiation counters In most cases the various chapters develop their material in a general mathematical form with applications to particular biological problems developed in thought provoking exercises Many of these are based on published papers and the student is asked to find mistaken assumptions and procedures A lengthy appendix presents and where necessary explains step by step the derivation of the solutions Other appendices concern approximations the use of logarithms and units and symbols The text includes treatment of the following topics Definitions assumptions and models Symbols dimensions and units Aids to mathematical work analog and digital computers graphical methods the method of least squares linear transformations Constants variables and functional relationships correlations symbol and arrow diagrams Feedback relationships feedback loops positive and negative feedback homeostasis Exponential growth and disappearance Transfer of substances between biological compartments steady states and equilibrium states simple diffusion general kinetics membrane permeability Further kinetic problems fluid flow metabolic transformations various biological examples The law of mass action effects of volume and temperature collision theory chemical equilibria ionization Substrate enzyme and drug receptor interactions The derivation of equations a general method The derivation of equations a detailed example anesthetic gases Methods for checking the validity of equations

**A Critical Primer**, 1970\*      The Mathematical Approach to Physiological Problems Douglas Shepard Riggs, 1970      **Mathematical Problems in Biology** P. van den Driessche, 2013-03-08

A conference on Some Mathematical Problems in Biology was held at the University of Victoria Victoria B C Canada from May 7 10 1973 The participants and invited speakers were mathematicians interested in problems of a biological nature and scientists actively engaged in developing mathematical models in biological fields One aim of the conference was to attempt to assess what the recent rapid growth of mathematical interaction with the biosciences has accomplished and may accomplish in the near future The conference also aimed to expose the problems of communication between mathematicians and biological scientists and in doing so to stimulate the interchange of ideas It was recognised that

the topic spans an enormous breadth and little attempt was made to balance the very diverse areas Widespread active interest was shown in the conference and just over one hundred people registered The varied departments and institutions across North America from which the participants came made it both academically and geographically mixed The chief activity of the conference was the presentation of papers Nine invited guest speakers see table of contents each gave a one hour talk These covered a wide range of topics There were twenty five shorter twenty minute contributed papers and almost all papers were followed by a five minute question and discussion period Duplicated abstracts of presented papers were available at the meeting An evening informal discussion meeting of participants chaired by Dr A B Tayler and led by Drs E M Hagmeier E C

**Introduction to Mathematics for Life Scientists** Edward Batschelet, 2012-12-06 From the reviews Here we have a book which we can wholeheartedly suggest The mathematics is sound and pared to essentials the examples are an impressive well chosen selection from the biomathematics literature and the problem sets provide both useful exercises and some fine introductions to the art of modeling Batschelet has written an introduction to biomathematics which is notable for its clarity not only a clarity of presentation but also a clarity of purpose backed by a sure grasp of the field Bulletin of Mathematical Biology 1 For research workers in the biomedical field who feel a need for freshening up their knowledge in mathematics but so far have always been frustrated by either too formal or too boring textbooks there is now exactly what they would like to have an easy to read introduction This book is highly motivating for practical workers because only those mathematical techniques are offered for which there is an application in the life sciences The reader will find it stimulating that each tool described is immediately exemplified by problems from latest publications Int Zeitschrift f r klinische Pharmakologie Therapie und Toxikologie 2

**DERMATOTOXICOLOGY 4ED** Francis Nicholas Marzulli, Howard I. Maibach, 1991-06-01 A guide to the field of dermatotoxicology This edition includes fundamental information on the mechanisms of action of toxic substances on skin as well as practical information on the varied responses of skin to specific toxic substances and approaches to evaluating dermal toxicity Other topics discussed include hostile natural elements such as ultraviolet radiation poisonous plants man made detergents and chemicals problems associated with chronic occupational skin exposure to toxic chemicals animal alternative research programmes carcinogenic and Photo Carcinogenic Potential Of Xenobiotic Chemicals Oculotoxicity Risk assessment and management and cosmetic safety Anatomical factors affecting barrier functions lipids of the permeability barrier the skin immune system

**Handbook of Developmental Neurotoxicology** William Slikker Jr., Merle G. Paule, Cheng Wang, 2018-01-04 Handbook of Developmental Neurotoxicology Second Edition provides a comprehensive view of the fundamental aspects of neurodevelopment the pathways and agents that affect them relevant clinical syndromes and risk assessment procedures for developmental neurotoxins The editors and chapter authors are internationally recognized experts whose collaboration heralds a remarkable advance in the field bridging developmental neuroscience with the principles of neurotoxicology The book features eight new chapters with newly

recruited authors making it an essential text for students and professionals in toxicology neurotoxicology developmental biology pharmacology and neuroscience Presents a comprehensive up to date resource on developmental neurotoxicology with updated chapters from the first edition Contains new chapters that focus on subjects recent to the field Includes well illustrated material with diagrams charts and tables Contains compelling case studies and chapters written by world experts

**Dermatotoxicology** Klaus Peter Wilhelm,Hongbo Zhai,Howard I. Maibach,2012-09-27 The foundational reference in dermal toxicology this classic text has been completely revised to bring it up to date in the new Eighth Edition with almost a third of its chapters being newly added The structure of the text has also been reorganized to enable easier location of a topic of interest With contributions from leading international ex *Inhalation Toxicology, Third Edition* Harry Salem,Sidney A. Katz,2014-08-19 The lungs provide a significant opportunity for the introduction of both therapeutic and toxic chemicals into the human body In occupational and domestic environments hazardous chemicals can enter the body through the lungs via gases aerosols and particulates from natural and anthropogenic sources Fully updated with new research and discoveries since the last edition *Inhalation Toxicology Third Edition* presents contributions from internationally recognized scientists in the academic commercial industrial and governmental sectors A pragmatic resource for practicing professionals and students the book comprehensively examines the relationship between the respiratory system and the toxicology of inhaled substances Topics include Regulatory aspects of exposure and testing Testing equipment and procedures Respiratory allergy and irritation of the respiratory tract Risk assessment Toxicology theory Toxicology modeling Toxic effects of some individual toxicants New topics in this third edition include collection and characterization of airborne particulate matter the inhalation toxicology of asbestos fibers and nanoparticles and the development of lung on a chip technology for predicting in vivo responses Each chapter concludes with thought provoking questions and answers enhancing the book s educational utility

Hayes' Principles and Methods of Toxicology A. Wallace Hayes,Tetyana Kobets,2023-07-03 Hayes Principles and Methods of Toxicology has long been established as a reliable and informative reference for the concepts methodologies and assessments integral to toxicology The new edition contains updated and new chapters with the addition of new authors while maintaining the same high standards that have made this book a benchmark resource in the field Key Features The comprehensive yet concise coverage of various aspects of fundamental and applied toxicology makes this book a valuable resource for educators students and professionals Questions provided at the end of each chapter allow readers to test their knowledge and understanding of the material covered All chapters have been updated and over 60 new authors have been added to reflect the dynamic nature of toxicological sciences New topics in this edition include Safety Assessment of Cosmetics and Personal Care Products The Importance of the Dose Rate Response Novel Approaches and Alternative Models Epigenetic Toxicology and an Expanded Glossary The volume is divided into 4 major sections addressing fundamental principles of toxicology Section I Principles of Toxicology major classes of established chemical hazards Section II Agents

current methods used for the assessment of various endpoints indicative of chemical toxicity Section III Methods as well as toxicology of specific target systems and organs Section IV Organ and System Specific Toxicology This volume will be a valuable tool for the audience that wishes to broaden their understanding of hazards and mechanisms of toxicity and to stay on top of the emerging methods and concepts of the rapidly advancing field of toxicology and risk assessment

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