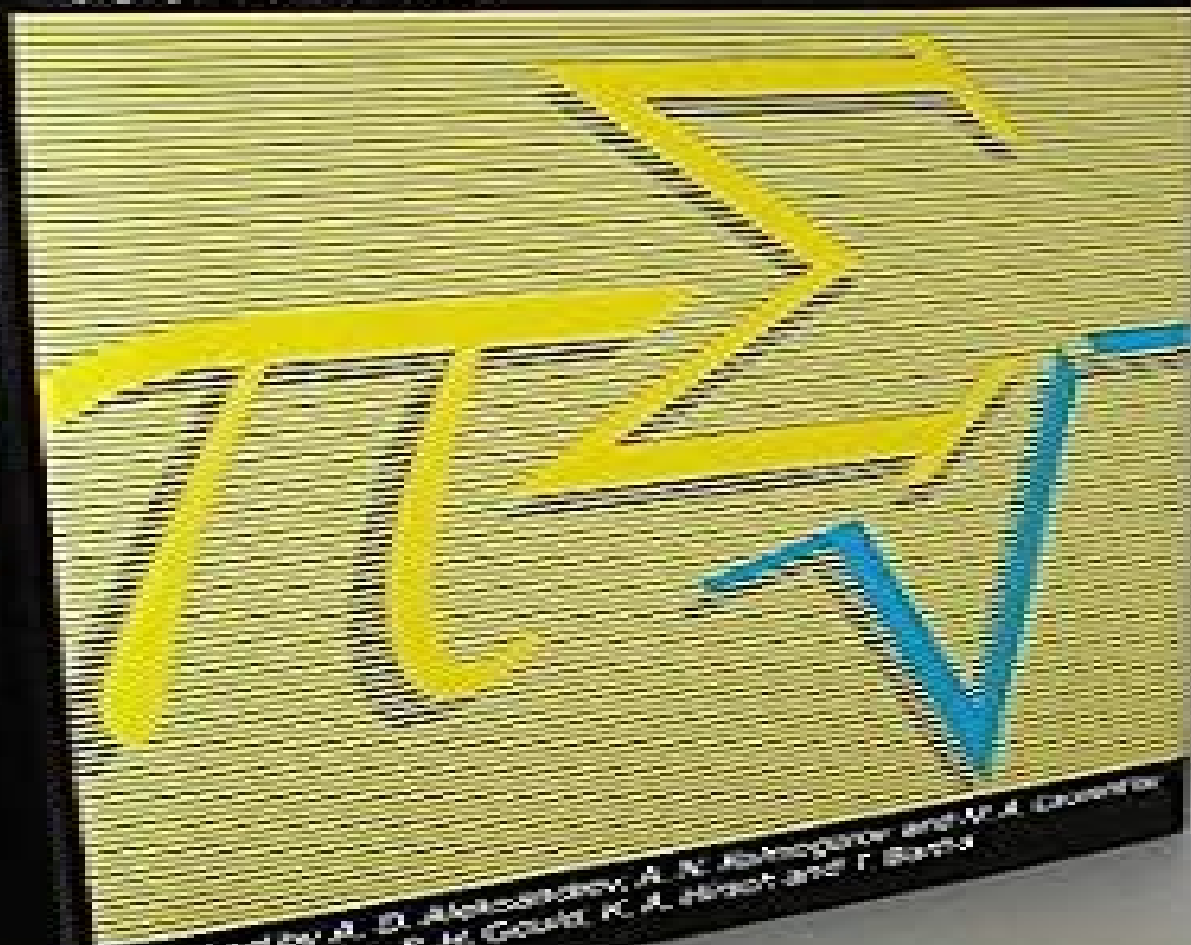


# **MATHEMATICS**

**Its Content, Methods and Meaning**  
Volume Three



Edited by A. D. Aleksandrov, A. N. Kolmogorov and M. A. Lavrent'ev  
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**MATHEMATICS**  
Its Content, Methods and Meaning

Volume Three

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# Mathematics Its Content Methods 3vol

**Huangqi Zhang**



## Mathematics Its Content Methods 3vol:

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Matthews,2013-03-13 For two weeks in August 1975 more than 140 mathematicians and other scientists gathered at the Universite de Sherbrooke The occasion was the 15th Biennial Seminar of the Canadian Mathematical Congress entitled Mathematics and the Life Sciences Participants in this inter disciplinary gathering included researchers and graduate students in mathematics seven different areas of biological science physics chemistry and medical science Geographically those present came from the United States and the United Kingdom as well as from academic departments and government agencies scattered across Canada In choosing this particular interdisciplinary topic the programme committee had two chief objectives These were to promote Canadian research in mathematical problems of the life sciences and to encourage co operation and exchanges between mathematical scientists biologists and medical re searchers To accomplish these objective the committee assembled a stim ulating programme of lectures and talks Six principal lecturers each delivered a series of five one hour lectures in which various aspects of the interaction between mathematics and the life sciences were considered In addition researchers working in the areas of health population biology physiology and development biology and disease processes were invited to give more than 25 hours of complementary talks      *Paperbound Books in Print* ,1992

*Scientific and Technical Books in Print* ,1972      *Energy Research Abstracts* ,1981      **Deterministic Threshold Models in the Theory of Epidemics** P. Waltman,2013-03-08 These notes correspond to a set of lectures given at the Univer sity of Alberta during the spring semester 1973 The first four sec tions present a systematic development of a deterministic threshold model for the spraad of an infection Section 5 presents some compu tational results and attempts to tie the model with other mathematics In each of the last three sections a separate specialized topic is presented The author wishes to thank Professor F Hoppensteadt for making available preprints of two of his papers and for reading and comment ing on a preliminary version of these notes He also wishes to thank Professor J Mosevich for providing the graphs in Section 5 The visit at the University of Alberta was a very pleasant one and the author wishes to express his appreciation to Professors S Ghurye and J Macki for the invitation to visit there Finally thanks are due to the very competent secretarial staff at the University of Alberta for typing the original draft of the lecture notes and to Mrs Ada Burns of the University of Iowa for her

excellent typescript of the final version

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6 **Ion Transport through Biological Membranes** M.C. Mackey, 2013-03-13

This book illustrates some of the ways physics and mathematics have been and are being used to elucidate the underlying mechanisms of passive ion movement through biological membranes in general and the membranes of excitable cells in particular. I have made no effort to be comprehensive in my introduction of biological material and the reader interested in a brief account of single cell electrophysiology from a physically oriented biologist's viewpoint will find the chapters by Woodbury 1965 an excellent introduction. Part I is introductory in nature, exploring the basic electrical properties of inexcitable and excitable cell plasma membranes. Cable theory is utilized to illustrate the function of the non-decrementing action potential as a signaling mechanism for the long range transmission of information in the nervous system and to gain some insight into the gross behaviour of neurons. The detailed analysis of Hodgkin and Huxley on the squid giant axon membrane ionic conductance properties is reviewed briefly and some facets of membrane behaviour that have been revealed since the appearance of their work are discussed. Part II examines the foundations of electrodiffusion theory and the use of that theory in trying to develop quantitative explanations of the observed membrane properties of excitable cells in particular the squid giant axon. In addition an ad hoc formulation of electrodiffusion theory including active transport is presented to illustrate the qualitative nature of cellular homeostasis with respect to intracellular ionic concentrations and membrane potential and cellular responses to prolonged stimulation.

**Catalogue of the Books and Tracts on Pure Mathematics in the Central Library** Newcastle upon Tyne (England). Public libraries, 1901

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