The Mathematical Theory of the Dynamics of Biological Populations II

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Mathematical Theory Of The Dynamics Of Biological Populations

Maurice Stevenson Bartlett,R. W. Hiorns

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The Population Dynamics of Infectious Diseases: Theory and Applications Roy M. Anderson,2013-11-22 Since the beginning of this century there has been a growing interest in the study of the epidemiology and population dynamics of infectious disease agents Mathematical and statistical methods have played an important role in the development of this field and a large and sophisticated literature exists which is concerned with the theory of epidemiological processes in popu lations and the dynamics of epidemie and endemie disease phenomena Much ofthis literature is however rather formal and abstract in character and the field has tended to become rather detached from its empirical base Relatively little of the literature for example deals with the practical issues which are of major concern to public health workers Encouragingly in recent years there are signs of an increased awareness amongst theoreticians of the need to confront predictions with observed epidemiological trends and to pay elose attention to the biological details of the interaction between host and disease agent This trend has in part been stimulated by the early work of Ross and Macdonald on the transmission dynamics of tropical parasitic infections but a further impetus has been the recent advances made by ecologists in blending theory and

observation in the study of plant and animal populations Mathematical Biology James D. Murray,2007-06-12 It has been over a decade since the release of the now classic original edition of Murray s Mathematical Biology Since then mathematical biology has grown at an astonishing rate and is well established as a distinct discipline Mathematical modeling is now being applied in every major discipline in the biomedical sciences Though the field has become increasingly large and specialized this book remains important as a text that introduces some of the exciting problems that arise in biology and gives some indication of the wide spectrum of questions that modeling can address Due to the tremendous development in the field this book is being published in two volumes This first volume is an introduction to the field the mathematics mainly involves ordinary differential equations that are suitable for undergraduate and graduate courses at different levels For this new edition Murray is covering certain items in depth giving new applications such as modeling marital interactions andtemperature dependence sex determination SIAM 2004 Murray s Mathematical Biology is a classic that belongs on the shelf of any serious student or researcher in the field Together the two volumes contain well over 1000 references a rich source of material together with an excellent index to help readers quickly find key words I recommend the new and expanded third edition to any serious young student interested in mathematical biology who already has a solid basis in applied mathematics **The Mathematical Theory of the Dynamics of Biology Population** Maurice Stevenson Bartlett,R. W. Hiorns,1973 Population Biology of Infectious Diseases R.M. Anderson,R.M. May,2012-12-06 for the design of control programs in extreme cases as dis cussed below by Fine et al this volume and elsewhere it can happen that immunization programs although they protect vaccinated individuals actually increase the overall incidence of a particular disease The possibility that many nonhuman animal populations may be regulated by parasitic infections is another topic where it may be argued that conventional disciplinary boundaries have retarded investigation While much ecological research has been devoted to exploring the extent to which competition or predator prey interactions may regulate natural populations or set their patterns of geographical distribution few substan tial studies have considered the possibility that infectious diseases may serve as regulatory agents 1 8 On the other hand the many careful epidemiological studies of the trans mission and maintenance of parasitic infections in human and other animal populations usually assume the host population density to be set by other considerations and not dynamically engaged with the disease see for example 1 2 With all these considerations in mind the Dahlem Workshop from which this book derives aimed to weave strands together testing theoretical analysis against empirical facts and patterns and identifying outstanding problems in pursuit of a better un derstanding of the overall population biology of parasitic in fections For the purpose of the workshop the term parasite was de fined widely to include viruses bacteria protozoans fungi and helminths

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