



Mathematical Modelling of Immune Response in Infectious Diseases (Mathematics and Its Applications)

Guri I. Marchuk

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Beginning his work on the monograph to be published in English, this author tried to present more or less general notions of the possibilities of mathematics in the new and rapidly developing science of infectious immunology, describing the processes of an organism's defence against antigen invasions. The results presented in this monograph are based on the construction and application of closed models of immune response to infections which makes it possible to approach problems of optimizing the treatment of chronic and hypertoxic forms of diseases. The author, being a mathematician, had creative long-lasting contacts with immunologists, geneticist, biologists, and clinicians. As far back as 1976 it resulted in the organization of a special seminar in the Computing Center of Siberian Branch of the USSR Academy of Sciences on mathematical models in immunology. The seminar attracted the attention of a wide circle of leading specialists in various fields of science. All these made it possible to approach, from a more or less united stand point, the construction of models of immune response, the mathematical description of the models, and interpretation of results.

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