Reaction-Diffusion Waves in Physiological Applications

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Abstract

We will begin this presentation with a short introduction to the theory of reaction-diffusion waves [1]. After that we will discuss their applications to some problems in physiology. Modelling of atherosclerosis and reaction-diffusion problems with nonlinear boundary conditions will be considered in more detail [2]. The underlying mathematical theory based on the analysis of elliptic problems in unbounded domains will be briefly presented [3].

Keywords: reaction-diffusion waves, spreading diseases, atherosclerosis, elliptic problems.

References

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