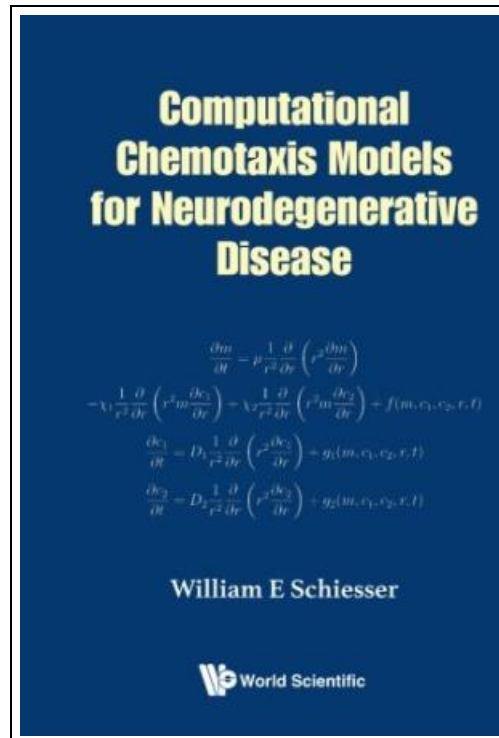


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COMPUTATIONAL CHEMOTAXIS MODELS FOR NEURODEGENERATIVE DISEASE (PAPERBACK)



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World Scientific Publishing Co Pte Ltd, Singapore, 2017. Paperback. Condition: New. Language: English . Brand New Book. The mathematical model presented in this book, based on partial differential equations (PDEs) describing attractant-repellent chemotaxis, is offered for a quantitative analysis of neurodegenerative disease (ND), e.g., Alzheimer s disease (AD). The model is a representation of basic phenomena (mechanisms) for diffusive transport and biochemical kinetics that provides the spatiotemporal distribution of components which could explain the evolution of ND, and is offered with the intended purpose of providing a small step toward the understanding, and possible treatment of ND. The format and emphasis of the presentation is based on the following elements: A statement of the PDE system, including initial conditions (ICs), boundary conditions (BCs) and the model parameters. Algorithms for the calculation of numerical solutions of the PDE system with a minimum of mathematical formality. A set of R routines for the calculation of numerical solutions, including a detailed explanation of all of the sections of the code. The R routines can be executed after a straightforward download of R, an open-source scientific computing system available from the Internet. Presentation of the numerical solutions, particularly in graphical (plotted) format to enhance the visualization of the solution. Summary and conclusions concerning the principal results from the model that might serve as the basis for a next step in the modeling of ND. In other words, a methodology for numerical PDE modeling is presented that is flexible, open ended and readily implemented on modest computers. If the reader is interested in an alternate model, it might possibly be implemented by: (1) modifying and/or extending the current model (for example, by adding terms to the PDEs or adding additional PDEs), or (2) using the reported routines as a prototype for the model of interest...



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