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Charles Pidgeon

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"Tutorials for the Biomedical Sciences" is an exciting new book and computer disk package designed to aid researchers, instructors, and undergraduate students in achieving a greater understanding of the basic chemical and physicochemical processes as related to drug action, drug discovery, and biomedical science in general. The Tutorials utilize Mathematica software as an instructional tool to display, animate, and calculate various complex physical phenomena in a highly understandable manner. No programming by the instructor or the reader is required to activate these functions. The Tutorials are "interactive" in that the user not only enters but may also change the values of parameters within the code in order to better comprehend difficult concepts. As the programs may be used on real data, the computer disk will continue to serve the researcher as a computational "toolbox" for the common calculations needed to perform basic statistical analyses, calculate pH, formulate buffers, do acid-base titrations, balance redox reactions, analysis results of ELISA of HIV, measure HIV viral load by PCR, generate plots of enzyme kinetics with and without inhibitors, understand and apply Smoluchowski kinetics to protein aggregation, and understand and measure membrane permeability. While the Mathematica software is necessary to run the Tutorials, it can also be applied to any number of additional mathematical or scientific applications.

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