



Advanced Simulation in Biomedicine

By Möller, Dietmar P.F.

Book Condition: New. Publisher/Verlag: Springer, Berlin | This book presents a collection of invited contributions, each reflecting an area of biomedicine in which simulation techniques have been successfully applied. Thus, it provides a state-of-the-art survey of simulation techniques in a variety of biomedical applications. Chapter one presents the conceptual framework for advanced simulations such as parallel processing in biological systems. Chapter two focuses on structured biological modeling based on the bond graph method. This is followed by an up-to-date account of advanced simulation of a variety of sophisticated biomedical processes. The authors provide many insights into how computer simulation techniques and tools can be applied to research problems in biomedicine. The idea for this book arose out of the daily work by experts in their field and reflects developing areas. Therefore, I think the material is timely and hope that the work described will be an encouragement for others. It is the objective of this book to present advanced simulation techniques in biomedicine and outline current research, as well as to point out open problems, in this dynamic field. Finally, I wish to express my thanks to those colleagues who have made this book possible with their contributions. | Parallel...



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