

Preface

We are very proud to present the latest addition to the Springer series *Studies in Mechanobiology, Tissue Engineering and Biomaterials*. When we started this book, we wanted to create a book that could serve as a starting point for graduate students and researchers interested in the development of computational models of biological processes, with a specific focus on how to deal with the inherent uncertainty.

We have managed to get a great international set of authors together, each discussing on a particular aspect of the problem based on their own expertise and research background.

All chapters start with a detailed theoretical description that serves the dual purpose of introducing the technique and providing sufficient details (in the text or by means of references to the literature) for all researchers to start using it themselves. Subsequently one or more examples illustrate how the technique can be used in a practical setting. Chapters are ordered according to the order in which the technique they describe appears in the development and implementation of new models. Reading the book from start to finish will therefore provide new researchers with a quite extensive tool set to get started for themselves. More experienced researchers will find for specific techniques the latest developments and a discussion of future developments.

This book is the end product of a lengthy process which has suffered from some unforeseen delays. Yet the vision and drive always remained present amongst the editors and authors. We are very happy with the end result and hope that readers will enjoy the book as much as we've enjoyed putting it together.

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Uncertainty in Biology

A Computational Modeling Approach

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