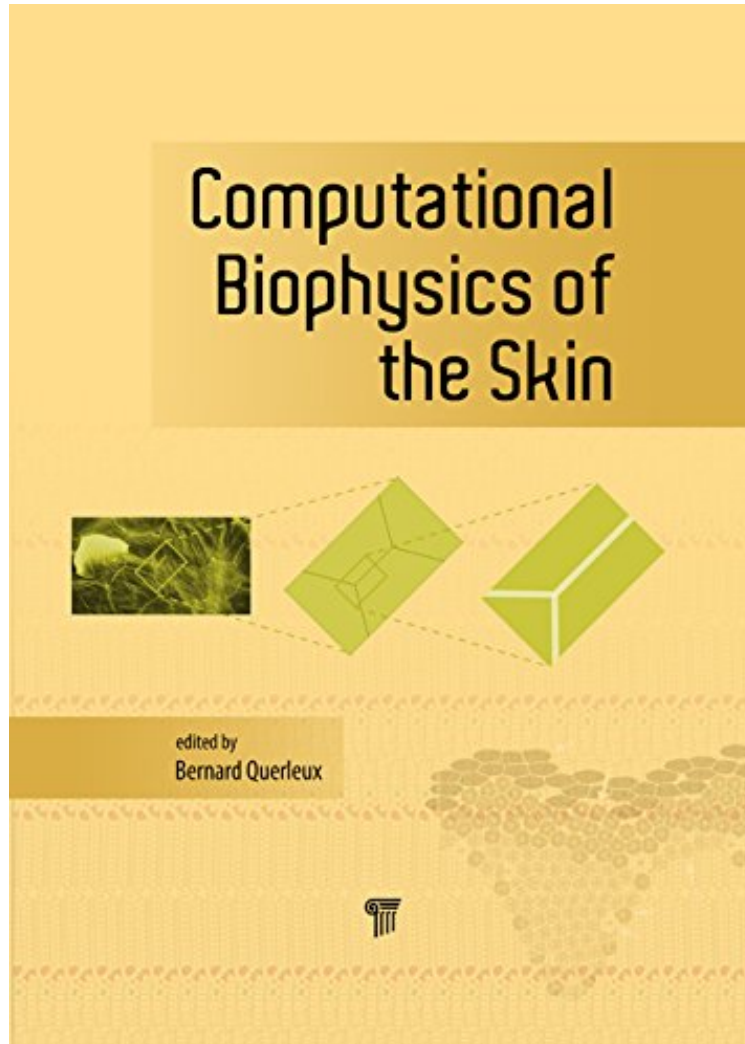


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Computational Biophysics of the Skin

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The accessibility of the skin in vivo has resulted in the development of non-invasive methods in the past 40 years that offer accurate measurements of skin properties and structures from microscopic to macroscopic levels. However, the mechanisms involved in these properties are still only partly understood. Similar to many other domains, including biomedical engineering, numerical modeling has appeared as a complementary key actor for improving our knowledge

of skin physiology. This book presents, for the first time, the contributions that focus on scientific computing and numerical modeling to offer a deeper understanding of the mechanisms involved in skin physiology. The book is structured around some skin properties and functions, including optical and biomechanical properties and skin barrier function and homeostasis, with for each of them several chapters that describe either biological or physical models at different scales.

About the Author Bernard Querleux is senior research associate at the Worldwide Advanced Research center of L'Oréal Research Innovation, France. He obtained his doctorate in electronic engineering and signal processing from the University of Grenoble, France, in 1987 and his habilitation in biophysics from Paris-Sud University, France, in 1995. Since 2005, Dr. Querleux is serving as scientific chairperson of the International Society for Biophysics and Imaging of the Skin. Apart from being an expert in functional brain imaging for the objective assessment of sensory perception, his main research interests concern the development of new non-invasive methods, including numerical modeling for skin and hair characterization.