



# **Theory of Heart: Biomechanics, Biophysics, and Nonlinear Dynamics of Cardiac Function (Institute for Nonlinear Science)**

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# Theory of Heart: Biomechanics, Biophysics, and Nonlinear Dynamics of Cardiac Function (Institute for Nonlinear Science)

## Theory of Heart: Biomechanics, Biophysics, and Nonlinear Dynamics of Cardiac Function (Institute for Nonlinear Science)

In recent years there has been a growth in interest in studying the heart from the perspective of the physical sciences: mechanics, fluid flow, electromechanics. This volume is the result of a workshop held in July 1989 at the Institute for Nonlinear Sciences at the University of California at San Diego that brought together scientists and clinicians with graduate students and postdoctoral fellows who shared an interest in the heart. The chapters were prepared by the invited speakers as didactic reviews of their subjects but also include the structure, mechanical properties, and function of the heart and the myocardium, electrical activity of the heart and myocardium, and mathematical models of heart function.

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