Singularity and Dynamics on Discontinuous Vector Fields, Vol 3. Monograph Series on Nonlinear Science and Complexity

Description: This book discussed fundamental problems in dynamics, which extensively exist in engineering, natural and social sciences. The book presented a basic theory for the interactions among many dynamical systems and for a system whose motions are constrained naturally or artificially. The methodology and techniques presented in this book are applicable to discontinuous dynamical systems in physics, engineering and control. In addition, they may provide useful tools to solve non-traditional dynamics in biology, stock market and internet network et al, which cannot be easily solved by the traditional Newton mechanics. The new ideas and concepts will stimulate ones' thought and creativities in corresponding subjects. The author also used the simple, mathematical language to write this book. Therefore, this book is very readable, which can be either a textbook for senior undergraduate and graduate students or a reference book for researches in dynamics.

Challenging continuous Newton's dynamics
Original theory and seeds of new researches in the field
Wide spectrum of applications in science and engineering
Systematic presentation and clear illustrations

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