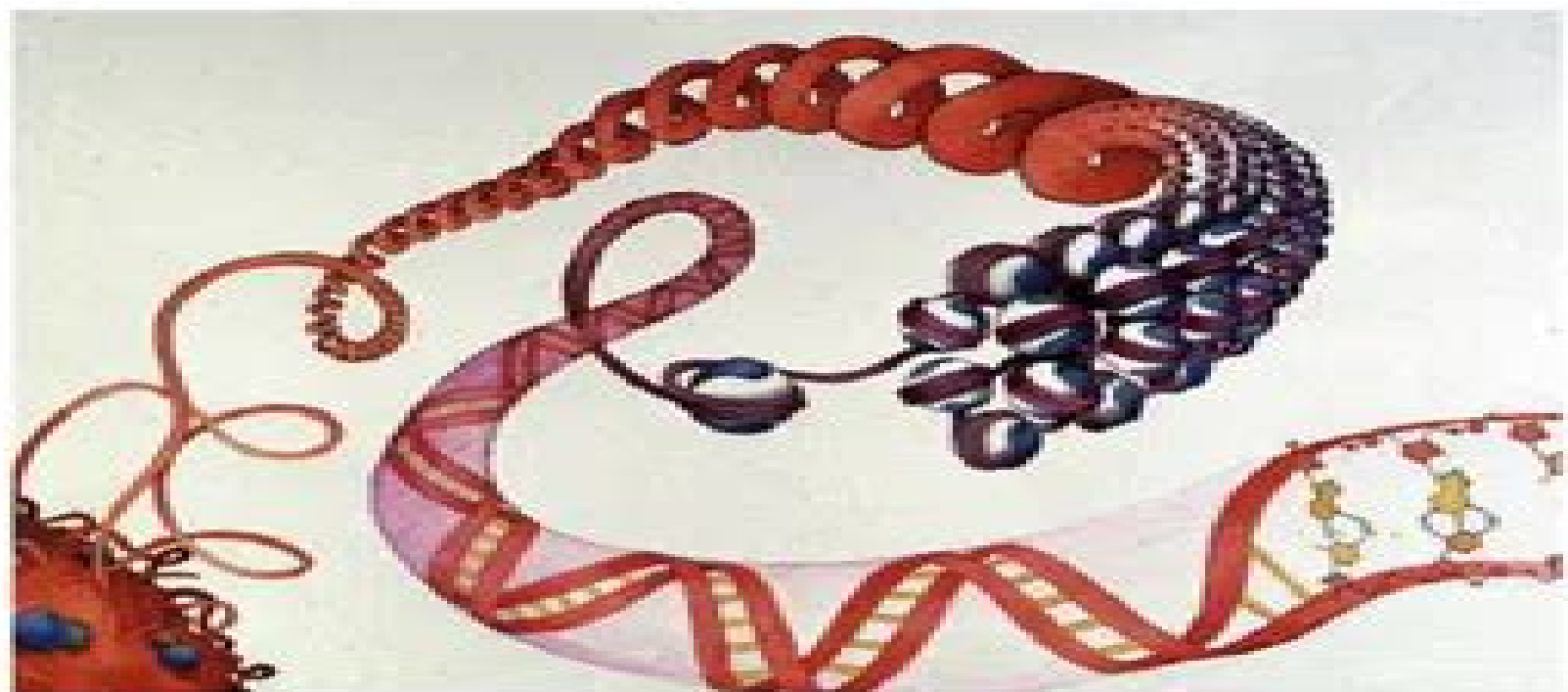


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# Nonlinear Physics of DNA

Second, Revised Edition



# Nonlinear Physics Of Dna

**Wei-Qiu Zhu, Mao-Lin Deng, Guo-Qiang  
Cai**



## **Nonlinear Physics Of Dna:**

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*Nonlinear Physics of DNA* Ludmila V. Yakushevich, 2004-07-02 The first edition of this book was the first on the physics of DNA to go beyond the simple simplified linear approach and it has since been found that the inclusion of nonlinear effects leads to a significantly improved interpretation of experimental data This new edition naturally retains this approach but has been completely revised updated and expanded to cover recent developments Beginning with introductory chapters on DNA structure and dynamics the book also includes a comparison between linear and nonlinear approaches to the DNA molecule a chapter devoted to the statistics of nonlinear excitations of DNA and examples for the interpretation of experimental data on the dynamics of DNA in terms of nonlinear theory Essential reading for researchers in biophysics and nonlinear physics allowing biologists chemists and physicists to continue developing new and improved techniques of investigating the DNA molecule

*Journal of Nonlinear Mathematical Physics Vol. 14* , **Proceedings of the First Workshop on Biological Physics 2000** Virulh Sa-yakanit, L. Matsson, Hans Frauenfelder, 2001 Like inanimate matter biological matter is condensed though it may be more complex However a living cell is a chemically open system with biological functions that are often a nonstationary nonlinear type of collective phenomena driven by chemical reactants e g ATP GTP ligands and receptors The living cell and many of its subsystems are hence lyotropic systems depending on various reactant concentrations rather than the temperature Nonlocal and local correlations of the interacting molecules become the prerequisites for signal transduction This book constitutes the proceedings of the workshop entitled Biological Physics 2000

Advances in Mathematical Inequalities and Applications Praveen Agarwal, Silvestru Sever Dragomir, Mohamed Jleli, Bessem Samet, 2018-12-31 This book is a collection of original research and survey articles on mathematical inequalities and their numerous applications in diverse areas of mathematics and engineering It includes chapters on convexity and related concepts inequalities for mean values sums functions operators functionals integrals and their applications in various branches of mathematics and related sciences fractional integral inequalities and weighted type integral inequalities It also presents their wide applications in biomathematics boundary value problems mechanics queuing models scattering and

geomechanics in a concise but easily understandable way that makes the further ramifications and future directions clear. The broad scope and high quality of the contributions make this book highly attractive for graduates, postgraduates, and researchers. All the contributing authors are leading international academics, scientists, researchers, and scholars. **Finely Dispersed Particles** Aleksandar M. Spasic, Jyh-Ping Hsu, 2005-10-14. Over the last decade, the biggest advances in physical chemistry have come from thinking smaller. The leading edge in research pushes closer to the atomic frontier with every passing year. Collecting the latest developments in the science and engineering of finely dispersed particles and related systems. *Finely Dispersed Particles: Micro Nano a Physics of Solitons* Thierry Dauxois, Michel Peyrard, 2006-03-09. This textbook gives an instructive view of solitons and their applications for advanced students of physics. **Waves And Stability In Continuous Media - Proceedings Of The 13th Conference On Wascom 2005** Roberto Monaco, Salvatore Rionero, Tommaso Ruggeri, G. Mulone, 2006-03-27. The book contains recent contributions in the field of waves propagation and stability in continuous media. In particular, the contributions consider discontinuity and shock waves, stability in fluid dynamics, small parameter problems, kinetic theories towards continuum models, non-equilibrium thermodynamics, and numerical applications. The volume is the fourth in a series published by World Scientific since 1999. The following distinguished authors contribute to the present book: S. Bianchini, R. Caflish, C. Cercignani, Y. Choquet, Bruhat, C. Dafermos, L. Desvillettes, V. Giovangigli, H. Gouin, I. Muller, D. Parker, B. Straughan, M. Sugiyama, and W. Weiss. **Synergetics of Molecular Systems** Lev N. Lupichev, Alexander V. Savin, Vasilii N. Kadantsev, 2014-08-19. Synergetics is the quantitative study of multicomponent systems that exhibit nonlinear dynamics and cooperativity. This book specifically considers basic models of the nonlinear dynamics of molecular systems and discusses relevant applications in biological physics and the polymer sciences. Emphasis is placed on specific solutions to the dynamical equations that correspond to the coherent formation of spatial-temporal structures such as solitons, kinks, and breathers. In particular, the emergence of these patterns in molecular structures provides a variety of information on their structural properties and plays a significant part in energy transfer processes, topological defects, dislocations, and related structure transitions. Real media in which solitons take the form of solitary waves are also considered. In this context, the formation of nonlinear waves in a continuous medium described by nonlinear equations is associated with spontaneous breaking of the local symmetry of the homogeneous system, which produces a range of interesting phenomena. A particular feature of this text is its combination of analytic and computational strategies to tackle difficult nonlinear problems at the molecular level of matter. **Mathematical Biophysics** Andrew Rubin, Galina Riznichenko, 2013-11-26. This book presents concise descriptions and analysis of the classical and modern models used in mathematical biophysics. The authors ask the question: what new information can be provided by the models that cannot be obtained directly from experimental data? Actively developing fields such as regulatory mechanisms in cells and subcellular systems, and electron transport and energy transport in membranes are addressed together with more

classical topics such as metabolic processes nerve conduction and heart activity chemical kinetics population dynamics and photosynthesis The main approach is to describe biological processes using different mathematical approaches necessary to reveal characteristic features and properties of simulated systems With the emergence of powerful mathematics software packages such as MAPLE Mathematica Mathcad and MatLab these methodologies are now accessible to a wide audience

**Proceedings, "WASCOM 2005"** Roberto Monaco, Giuseppe Mulone, Salvatore Rionero, Tommaso Ruggeri, 2006 The book contains recent contributions in the field of waves propagation and stability in continuous media In particular the contributions consider discontinuity and shock waves stability in fluid dynamics small parameter problems kinetic theories towards continuum models non equilibrium thermodynamics and numerical applications The volume is the fourth in a series published by World Scientific since 1999 The following distinguished authors contribute to the present book S Bianchini R Caflish C Cercignani Y Choquet Bruhat C Dafermos L Desvillettes V Giovangigli H Gouin I Muller D Parker B Straughan M Sugiyama and W Weiss

**IUTAM Symposium on Asymptotics, Singularities and Homogenisation in Problems of Mechanics** A.B. Movchan, 2006-05-09 Proceedings of the IUTAM Symposium held in Liverpool UK 8 11 July 2002

*Modern Methods for Theoretical Physical Chemistry of Biopolymers* Evgeni Starikov, James P. Lewis, Shigenori Tanaka, 2011-08-11 Modern Methods for Theoretical Physical Chemistry of Biopolymers provides an interesting selection of contributions from an international team of researchers in theoretical chemistry This book is extremely useful for tackling the complicated scientific problems connected with biopolymers physics and chemistry The applications of both the classical molecular mechanical and molecular dynamical methods and the quantum chemical methods needed for bridging the gap to structural and dynamical properties dependent on electron dynamics are explained Also included are ways to deal with complex problems when all three approaches need to be considered at the same time The book gives a rich spectrum of applications from theoretical considerations of how ATP is produced and used as energy currency in the living cell to the effects of subtle solvent influence on properties of biopolymers and how structural changes in DNA during single molecule manipulation may be interpreted Presents modern successes and trends in theoretical physical chemistry chemical physics of biopolymers Topics covered are of relevant importance to rapidly developing areas in science such as nanotechnology and molecular medicine Quality selection of contributions from renowned scientists in the field

*Stochastic Averaging* Wei-Qiu Zhu, Mao-Lin Deng, Guo-Qiang Cai, 2025-08-09 The stochastic averaging methods are among the most effective and widely applied approximate methods for studying nonlinear stochastic dynamics Upon an overview of global research on the subject the book highlights a comprehensive summary of research results obtained by the group led by Professor Weiqiu Zhu at Zhejiang University in China and the group led by Professors Y K Lin and G Q Cai at Florida Atlantic University in the USA over the past three decades The books are structured to progress logically from foundational principles to simple problems and then to increasingly complex applications To facilitate understanding and mastery of the methods the books offer

essential preliminary knowledge and a wealth of examples The book comprises two volumes Volume 1 introduces the basic principles of stochastic averaging methods and their applications to single degree of freedom systems under various random excitations It also covers stochastic averaging methods for quasi Hamiltonian systems subjected to different random excitations including Gaussian white noise combined Gaussian and Poisson white noises and fractional Gaussian noise Volume 2 explores stochastic averaging methods for quasi integrable Hamiltonian systems under colored noise excitation quasi integrable Hamiltonian systems with genetic effects under Gaussian white noise and colored noise excitations and quasi generalized Hamiltonian systems under Gaussian white noise excitation Additionally it covers applications of these methods in ecosystems and some other natural science and engineering scenarios These books serve as both introductory texts and valuable reference resources for readers in higher education and research institutions who are interested in or actively engaged in research involving nonlinear stochastic dynamics The fields covered include mechanics physics chemistry biology ecology astronautics and aeronautics oceanography civil engineering mechanical engineering and electrical engineering

**Topics from the 8th Annual UNCG Regional Mathematics and Statistics Conference** Jan Rychtář, Sat Gupta, Ratnasingham Shivaji, Maya Chhetri, 2013-11-20 The Annual University of North Carolina Greensboro Regional Mathematics and Statistics Conference UNCG RMSC has provided a venue for student researchers to share their work since 2005 The 8th Conference took place on November 3 2012 The UNCG RMSC conference established a tradition of attracting active researchers and their faculty mentors from NC and surrounding states The conference is specifically tailored for students to present the results of their research and to allow participants to interact with and learn from each other This type of engagement is truly unique The broad scope of UNCG RMSC includes topics in applied mathematics number theory biology statistics biostatistics and computer sciences

**Mathematical Methods in Engineering** K. Tas, J.A. Tenreiro Machado, D. Baleanu, 2007-11-25 This book contains some of the contributions that have been carefully selected and peer reviewed which were presented at the International Symposium MME06 Mathematical Methods in Engineering held in Cankaya University Ankara April 2006 The Symposium provided a setting for discussing recent developments in Fractional Mathematics Neutrices and Generalized Functions Boundary Value Problems Applications of Wavelets Dynamical Systems and Control Theory

Nanoscience & Nanotechnologies Raffaele Pisano, 2025-08-19 Nanoscience has explored new modelling and new devices in the applied sciences and technologies in health and life sciences This includes work on structures nano machines communications environment and materials science closing the gap for society toward a sustainable civilization Feynman's Plenty of Room 1959 opened a new perspective science in society debate how can we handle the applications and implications of nanoscience What is the human factor in the 21st century This volume offers both the state of the art in the field and the corresponding research with discussion of exciting developments in nanoscience technologies including historical educational and societal aspects For the first time in a unique volume it brings together

cutting edge chapters in a multi disciplinary and historical context It describes the ways it differently accounted for variation in unlike countries and consequently how its results remain still nowadays a debated question as well as due to constraints preventing an extensive exploration of its remarkable historiography It is written by leading authoritative scholars working in the various respective fields This book is ideal for scientists historians and scholars interested in nanoscience and its historical societal ramifications

**Bioinformatics Research and Applications** Ion Măndoiu,Alexander Zelikovsky,2007-04-26 This book constitutes the refereed proceedings of the Third International Symposium on Bioinformatics Research and Applications ISBRA 2007 held in Atlanta GA USA in May 2007 The 55 revised full papers presented together with three invited talks cover a wide range of topics including clustering and classification gene expression analysis gene networks genome analysis motif finding pathways protein structure prediction protein domain interactions phylogenetics and software tools

*Stochastic Dynamics Of Reacting Biomolecules* Werner Ebeling,Yuri M Romanovsky,Lutz Schimansky-geier,2003-01-29 This is a book about the physical processes in reacting complex molecules particularly biomolecules In the past decade scientists from different fields such as medicine biology chemistry and physics have collected a huge amount of data about the structure dynamics and functioning of biomolecules Great progress has been achieved in exploring the structure of complex molecules However there is still a lack of understanding of the dynamics and functioning of biological macromolecules In particular this refers to enzymes which are the basic molecular machines working in living systems This book contributes to the exploration of the physical mechanisms of these processes focusing on critical aspects such as the role of nonlinear excitations and of stochastic effects An extensive range of original results has been obtained in the last few years by the authors and these results are presented together with a comprehensive survey of the state of the art in the field

**Molecular Machines** Giovanni Zocchi,2018-07-10 Molecular Machines presents a dynamic new approach to the physics of enzymes and DNA from the perspective of materials science Unified around the concept of molecular deformability how proteins and DNA stretch fold and change shape this book describes the complex molecules of life from the innovative perspective of materials properties and dynamics in contrast to structural or purely chemical approaches It covers a wealth of topics including nonlinear deformability of enzymes and DNA the chemo dynamic cycle of enzymes supra molecular constructions with internal stress nano rheology and viscoelasticity and chemical kinetics Brownian motion and barrier crossing Essential reading for researchers in materials science engineering and nanotechnology the book also describes the landmark experiments that have established the materials properties and energy landscape of large biological molecules Molecular Machines is also ideal for the classroom It gives graduate students a working knowledge of model building in statistical mechanics making it an essential resource for tomorrow s experimentalists in this cutting edge field In addition mathematical methods are introduced in the bio molecular context for example DNA conformational transitions are used to illustrate the transfer matrix formalism The result is a generalized approach to

mathematical problem solving that enables students to apply their findings more broadly Molecular Machines represents the next leap forward in nanoscience as researchers strive to harness proteins enzymes and DNA as veritable machines in medicine technology and beyond



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