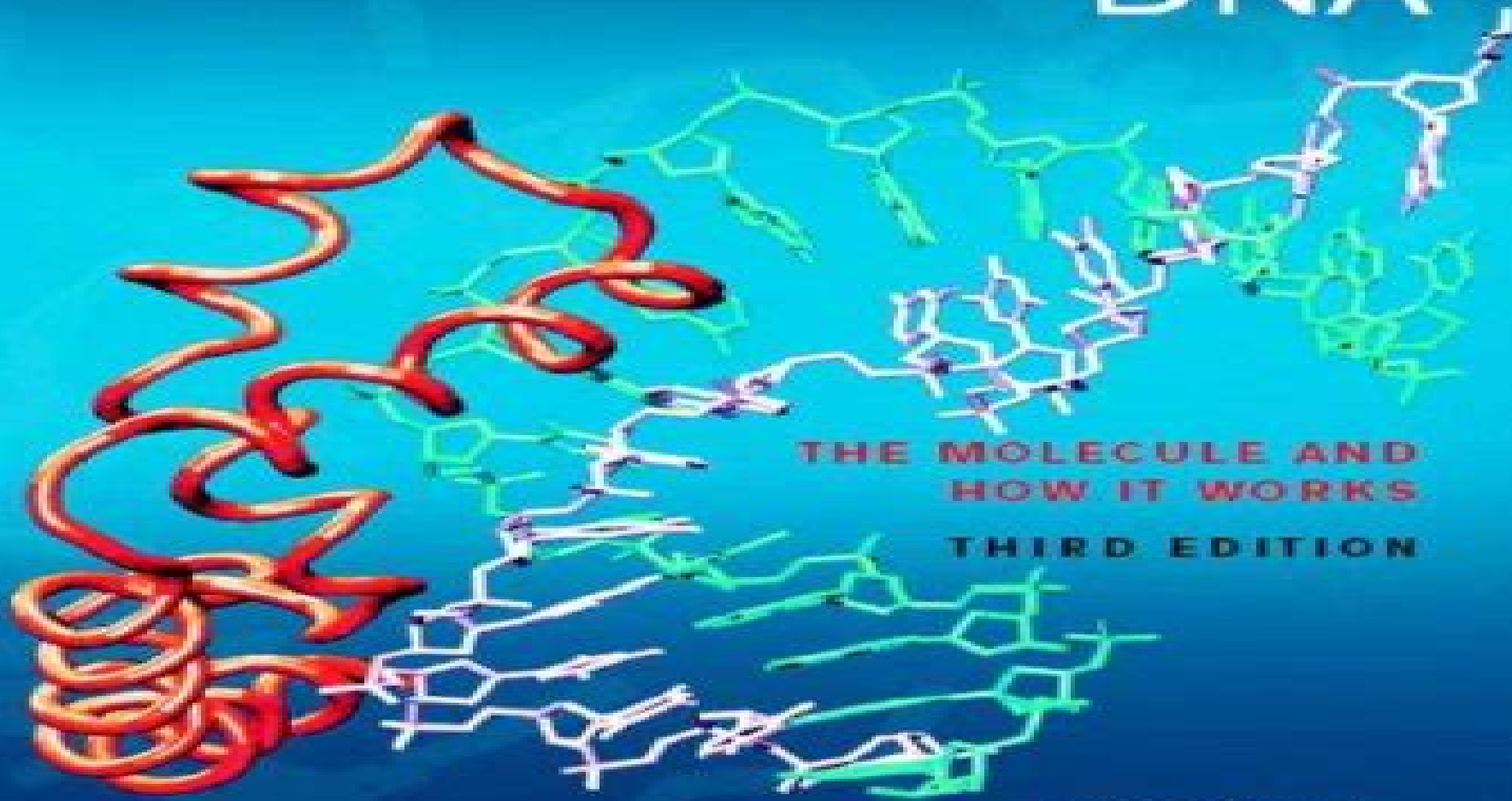




Understanding DNA



THE MOLECULE AND
HOW IT WORKS
THIRD EDITION

Chris R Calladine
Horace R Drew
Ben F Luisi
Andrew A Travers

Understanding Dna Third Edition The Molecule And How It Works

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Adams, Erica Flapan, Allison Henrich, Louis H. Kauffman, Lewis D. Ludwig, Sam Nelson, 2021-02-10 Knot theory is a fascinating mathematical subject with multiple links to theoretical physics This encyclopedia is filled with valuable information on a rich and fascinating subject Ed Witten Recipient of the Fields Medal I spent a pleasant afternoon perusing the Encyclopedia of Knot Theory It s a comprehensive compilation of clear introductions to both classical and very modern developments in the field It will be a terrific resource for the accomplished researcher and will also be an excellent way to lure students both graduate and undergraduate into the field Abigail Thompson Distinguished Professor of Mathematics at University of California Davis Knot theory has proven to be a fascinating area of mathematical research dating back about 150 years Encyclopedia of Knot Theory provides short interconnected articles on a variety of active areas in knot theory and includes beautiful pictures deep mathematical connections and critical applications Many of the articles in this book are accessible to undergraduates who are working on research or taking an advanced undergraduate course in knot theory More advanced articles will be useful to graduate students working on a related thesis topic to researchers in another area of topology who are interested in current results in knot theory and to scientists who study the topology and geometry of biopolymers Features Provides material that is useful and accessible to undergraduates postgraduates and full time researchers Topics discussed provide an excellent catalyst for students to explore meaningful research and gain confidence and commitment to pursuing advanced degrees Edited and contributed by top researchers in the field of knot theory **Single-Molecule Studies of Nucleic Acids and Their Proteins** David Bensimon, Vincent Croquette, Jean-François Allemand, Xavier

Michalet, Terence Strick, 2018-11-30 This book provides the basis for understanding the elastic properties of nucleic acids DNA RNA the methods used to manipulate them e g optical magnetic and acoustic tweezers and traps and how to observe their interactions with proteins e g fluorescence microscopy FCS FRET etc It then exemplifies the use of these various methods in the study of three families of DNA enzymes polymerases helicases and topoisomerases The book aims not to be exhaustive but rather to stimulate the imagination of readers in the application of these single molecule approaches to the study of DNA RNA and their interactions

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IUTAM-IASS Symposium on Deployable Structures: Theory and Applications Sergio Pellegrino, Simon D. Guest, 2013-03-09 The IUTAM IASS Symposium on Deployable Structures Theory and Applications was held on 6-9 September 1998 in the Department of Engineering University of Cambridge The Scientific Committee was appointed jointly by the two sponsoring organisations the International Union for Theoretical and Applied Mechanics IUTAM and the International Association for Shell and Spatial Structures IASS Its membership was as follows S Pellegrino UK Chairman C R Calladine UK L B Freund USA M Geradin Belgium Y Hangai Japan K Kawata Japan B Kroplin Germany S Medwadowski USA M M Mikulas USA A Samartin Quiroga Spain F P Rimrott Canada T Tarnai Hungary The opening lecture of the Symposium was given by Professor C R Calladine It was followed by seven lecture sessions on Concepts Structural Mechanics Reflectors Deployable Structures in Nature Design and Testing Inflatable Structures Simulation plus a large interactive session during which posters and physical models were shown A discussion of topics suggested by the participants took place during the closing session There were 83 participants from 18 countries and a total of 50 papers were presented Financial support was generously provided by the International Union of Theoretical and Applied Mechanics IUTAM Additional support was provided by the British Council the British National Space Centre BNSC and Kluwer Academic Publishers We thank the members of the Scientific Committee for their willingness to referee to a high standard both the abstracts and the papers for the proceedings Professor G M L

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