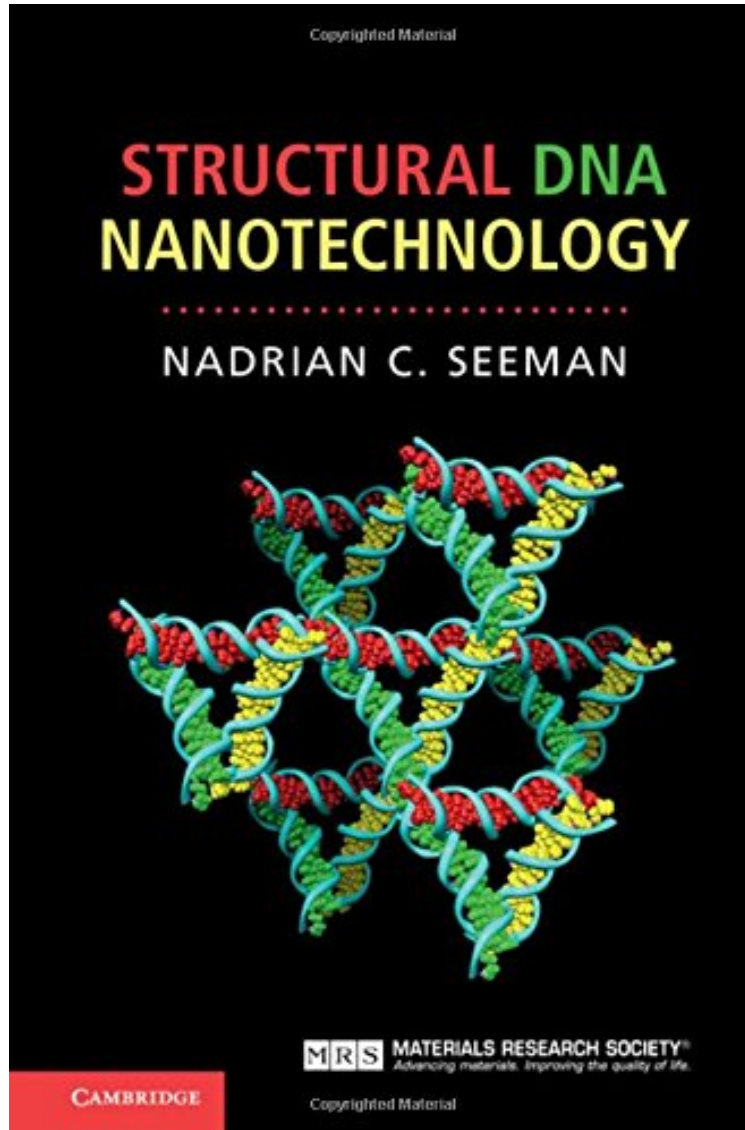


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# Structural DNA Nanotechnology

*Nadrian C. Seeman*

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**Nadrian C. Seeman : Structural DNA Nanotechnology** before purchasing it in order to gage whether or not it would be worth my time, and all praised Structural DNA Nanotechnology:

0 of 0 people found the following review helpful. Five StarsBy Jinhyung LeeVery good book0 of 0 people found the following review helpful. Five StarsBy CustomerIt is very good

Written by the founder of the field, this is the first text of its kind, providing a definitive introduction to structural DNA nanotechnology. Readers will learn everything there is to know about the subject from the unique perspective of

the leading expert in the field. Topics covered range from origins and history, to design, experimental techniques, DNA nanomechanics devices, computing, and the uses of DNA nanotechnology in organising other materials. Clearly written, and benefiting from over 200 full colour illustrations, readers will find this an accessible and easy to follow text that is essential reading for anyone who wants to enter this rapidly growing field. Ideal for advanced undergraduate and graduate students, as well as researchers in a range of disciplines including nanotechnology, materials science, physics, biology, chemistry, computational science and engineering.

"The first of its kind, it will undoubtedly become the Bible for DNA self-assembly and nanoscale 3D printing. The visionary father of the field of structural DNA nanotechnology, Ned Seeman, lays out its principles lucidly and with superb graphics to match. For anyone curious about synthetic DNA technologies or in connecting these principles with current research, this is a must-have-must-read." Yamuna Krishnan, University of Chicago

"Ned Seeman invented and pioneered structural DNA nanotechnology in the 1980s and he has been in the front line of the field since then. For many years he was alone in the field and it was considered as a mere curiosity by many scientists and ignored by most others. However, during the past 15 years the field has blossomed and today constitutes a unique approach to organize matter at the nanoscale by self-assembly. The book gives the best possible first-hand insight into this field and its amazing development." Kurt Vesterager Gothelf, Aarhus Universitet, Denmark

"The book is an inspiring insight into the design and development of DNA motifs used as building blocks, molecular devices, and information processing tools. It is stimulating to both students and professionals with detailed introduction to blueprint composition and experimental strategies. These strategies have provided an exponential growth in the subject and established the field of DNA nanotechnology." Natasha Jonoska, University of South Florida

"The pioneer of the field of structural DNA nanotechnology, Ned Seeman, presents the foundations, the state of the art, and the stories leading to the development of this fascinating field that today allows researchers around the globe to control matter with sub-nanometer precision by means of self-assembly. Students in nanoscience-related fields will greatly benefit from this book, and for researchers planning to work in the fast growing field of DNA nanotechnology, it is a must." Tim Liedl, Ludwig-Maximilians-Universitt Munchen

"This is a wonderful book. It systematically covers all major aspects of DNA nanotechnology, a rapidly evolving research field. Though there are multiple books and reviews that cover the current topics of this field, this book is the only one that provides insights on how this field originated, developed, differentiated, and flourished. I enjoyed reading this book particularly because of its emphasis on structural bases of DNA molecules; quite often neglected by people now. I fully expect that this book will serve as a handy reference for practitioners in the field of DNA nanotechnology, as a textbook for graduate students and undergraduate students, and also as a historic book for people studying science history. For sure, this book will be the textbook for my graduate course, bionanotechnology, at Purdue University." Chengde Mao, Purdue University, Indiana

About the Author

Nadrian C. Seeman is the founder of the field of structural DNA nanotechnology. He is currently the Margaret and Herman Sokol Professor of Chemistry at New York University and is the recipient of a number of awards including the Sidhu Award, the Feynman Prize, the Emerging Technologies Award, the Rozenberg Tulip Award in DNA Computing, the World Technology Network Award in Biotechnology, the NYACS Nichols Medal, the SCC Frontiers of Science Award, the ISNSCE Nanoscience Prize, the Kavli Prize in Nanoscience, the Einstein Professorship of the Chinese Academy of Sciences, a Distinguished Alumnus Award from the University of Pittsburgh and a Jagadish Chandra Bose Triennial Gold Medal from the Bose Institute, Kolkata. He is also a Thomson-Reuters Laureate and a Fellow of the American Crystallographic Association.