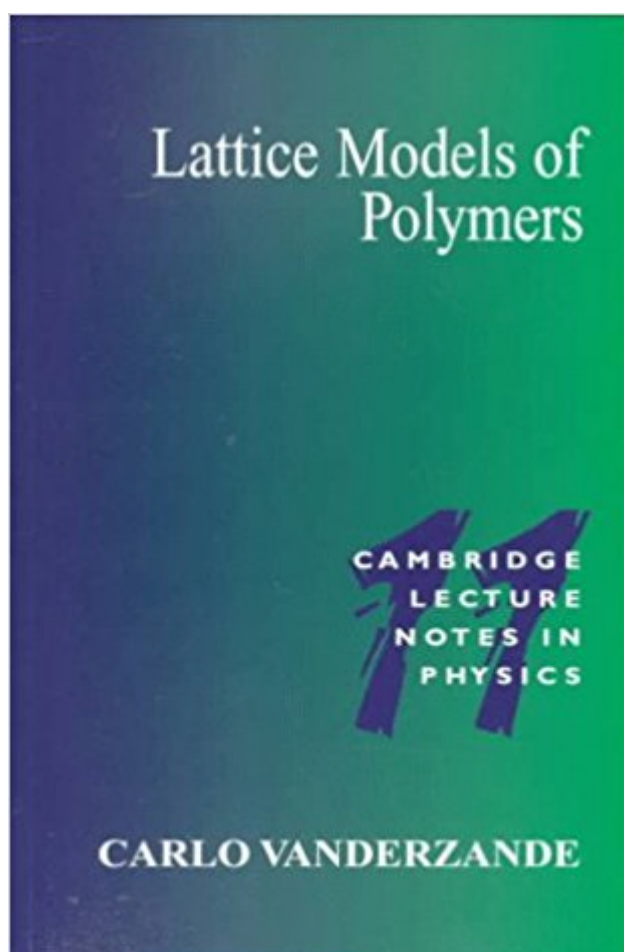


The book was found

Lattice Models Of Polymers (Cambridge Lecture Notes In Physics)



Synopsis

This is a comprehensive introduction to lattice models of polymers, an important topic both in the theory of critical phenomena and the modeling of polymers. The first two chapters introduce the basic theory of random, directed and self-avoiding walks. The book then goes on to develop and expand this theory to explore the self-avoiding walk in both two and three dimensions. Following chapters describe polymers near a surface, dense polymers, self interacting polymers and branched polymers. The book closes with discussions of some geometrical and topological properties of polymers, and of self-avoiding surfaces on a lattice. The volume combines results from rigorous analytical and numerical work to give a coherent picture of the properties of lattice models of polymers. This book will be valuable for graduate students and researchers working in statistical mechanics, theoretical physics and polymer physics. It will also be of interest to those working in applied mathematics and theoretical chemistry.

Book Information

Series: Cambridge Lecture Notes in Physics (Book 11)

Paperback: 240 pages

Publisher: Cambridge University Press; 1 edition (May 28, 1998)

Language: English

ISBN-10: 0521559936

ISBN-13: 978-0521559935

Product Dimensions: 6 x 0.6 x 9 inches

Shipping Weight: 14.1 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #6,067,839 in Books (See Top 100 in Books) #88 in [Books > Science & Math > Chemistry > Chemical Physics](#) #2149 in [Books > Engineering & Transportation > Engineering > Materials & Material Science > Polymers & Textiles](#) #3041 in [Books > Science & Math > Physics > Solid-State Physics](#)

Customer Reviews

Ideas from the theory of critical phenomena have been of great importance in polymer modelling ever since the Nobel prize winner P. G. de Gennes showed how the two subjects can be connected in 1972. This book provides an overview of what has been done in the 25 years following Professor de Gennes' original work. It presents a clear summary of this field, focussing on polymer models on a lattice. The volume will be valuable for graduate students and researchers working in statistical

mechanics, theoretical physics, polymer physics, applied mathematics and theoretical chemistry.

[Download to continue reading...](#)

Lattice Models of Polymers (Cambridge Lecture Notes in Physics) Diagrammatica: The Path to Feynman Diagrams (Cambridge Lecture Notes in Physics) Statistical Methods for Data Analysis in Particle Physics (Lecture Notes in Physics) Physics from Symmetry (Undergraduate Lecture Notes in Physics) Principles of Physics: For Scientists and Engineers (Undergraduate Lecture Notes in Physics) Principles of Astrophysics: Using Gravity and Stellar Physics to Explore the Cosmos (Undergraduate Lecture Notes in Physics) A Student's Guide Through the Great Physics Texts: Volume III: Electricity, Magnetism and Light: 3 (Undergraduate Lecture Notes in Physics) Conductors, Semiconductors, Superconductors: An Introduction to Solid State Physics (Undergraduate Lecture Notes in Physics) Biodegradable Polymers and Plastics (World Conference on Biodegradable Polymers and Plastics (7th) Models of the Stochastic Activity of Neurones (Lecture Notes in Biomathematics) Linear Mixed Models in Practice: A SAS-Oriented Approach (Lecture Notes in Statistics) Simple Mathematical Models of Gene Regulatory Dynamics (Lecture Notes on Mathematical Modelling in the Life Sciences) Quantum Electrodynamics: Gribov Lectures on Theoretical Physics (Cambridge Monographs on Particle Physics, Nuclear Physics and Cosmology) Telescopes and Techniques (Undergraduate Lecture Notes in Physics) Calabi-Yau Varieties: Arithmetic, Geometry and Physics: Lecture Notes on Concentrated Graduate Courses (Fields Institute Monographs) Symmetry, Group Theory, and the Physical Properties of Crystals (Lecture Notes in Physics) Quantum Thermodynamics: Emergence of Thermodynamic Behavior Within Composite Quantum Systems (Lecture Notes in Physics) An Introduction to Observational Astrophysics (Undergraduate Lecture Notes in Physics) The History and Science of the Manhattan Project (Undergraduate Lecture Notes in Physics) From Gravity to Thermal Gauge Theories: The AdS/CFT Correspondence (Lecture Notes in Physics)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)