The q -state Potts Model: Partition functions and their zeros in the complex temperature- and q-plane

By Hubert Klüpfel

GRIN Verlag Mrz 2014, 2014. Taschenbuch. Book Condition: Neu. 210x148x9 mm. This item is printed on demand - Print on Demand Neuware - Master's Thesis from the year 1999 in the subject Physics - Theoretical Physics, grade: 1,0, State University of New York at Stony Brook (Institute for Theoretical Physics), course: -, language: English, abstract: In this thesis results on the Partition function ZG(T, q) for the q state Potts Model on finite polygonal lattices G are presented. These are polynomials in a e J and q. The first step is to calculate all the coefficients of ZG(a, q) using a transfer matrix method. The only points of non analyticity are the zeros of the partition function; in the thermodynamic limit the complex temperature zeros form a continuous curve B via coalescence. This is the locus where the free energy is non analytic. The zeros of Z(a, q) in the complex q plane for finite a and in the complex a plane for integer and non integer values of q are plotted. For a = 0 the partition function reduces to the chromatic polynomial PG(q) of the graph and the zeros are called chromatic zeros. The behavior of those zeros...

READ ONLINE
[6.25 MB]

See Also

Psychologisches Testverfahren

Reference Series Books LLC Nov 2011, 2011. Taschenbuch. Book Condition: Neu. 249x191x7 mm. This item is printed on demand - Print on Demand Neuware - Quelle: Wikipedia. Seiten: 100. Kapitel: Myers-Briggs-Typindikator, Keirsey Temperament Sorter, DISG, Eignungstest für das Medizinstudium, Adult Attachment Interview,...

Programming in D

Ali Cehreli Dez 2015, 2015. Buch. Book Condition: Neu. 264x182x53 mm. This item is printed on demand - Print on Demand Neuware - The main aim of this book is to teach D to readers who are new to computer programming. Although...

Read Write Inc. Phonics: Grey Set 7 Non-Fiction 2 a Flight to New York

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. 213 x 98 mm. Language: N/A. Brand New Book. These decodable non-fiction books provide structured practice for children learning to read. Each set of books is carefully levelled to match childrens growing...

Ip Man Wing Chun Basics (the movie Ip Man director Sin Kwok. Ip Man master(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date: Unknown Pages: 129 in Publisher: China Industrial and Commercial Joint Press Information Original Price: 29.90 yuan Author: Liang...

Very Short Stories for Children: A Child's Book of Stories for Kids

Paperback. Book Condition: New. This item is printed on demand. Item doesn't include CD/DVD.

Frances Hodgson Burnett's a Little Princess

Penguin Young Readers Group. Paperback / softback. Book Condition: new. BRAND NEW, Frances Hodgson Burnett's a Little Princess, Deborah Hautzig, N/A, Natalie Carabetta, The All Aboard Reading series features stories that capture beginning readers' imagination while developing their vocabulary and reading comprehension....