

# Index

- action 82
- admissible 22
- automorphism 77
  
- block 61
- border 91
- boundary 5
  
- character 43
- chromatic polynomial 7, 24
- circuit graph 11
- cluster expansion 72
- coboundary 5
- colouring 7
- compatible orientations 50
- complete graph 10
- component 3
- configuration 3
- connected 2
- contraction 11
- co-rank 48
- correlation function 31, 89
- critical exponents 93
- cut-vertex 61
- cyclic group 82
- cyclomatic number 48
  
- deletion 11
- dimensionality 83
- direct product 82
  
- domain 90
- dual graph 50
- dual model 44
  
- edge 2
- edge-subgraph 21
- Eulerian 20
- Euler's formula 52
  
- family 13
- ferromagnetism 12
- finite support 70
- fixed vertex 83
- flow 39
  
- generator 82
- Gibbs canonical distribution 9
- graph 2
- graph scheme 25
- graph type 64
  
- hexagonal lattice 57
- high-temperature expansion 22, 49
  
- ice condition 40
- incidence matrix 4
- incidence relation 2
- interaction function 6
- interaction model 6
- Ising model 10
- isomorphic 61

- loop 2
- magnetisation 89
- Markov property 8
- multiple edges 2
- nonseparable 61
- orbit 83
- order parameter 32
- orientation 4
- partition function 6
- path 2
- path graph 11
- Perron-Frobenius theorem 97
- planar 49
- positive 7
- Potts model 18
- proper flow 41
- rank 23
- rank polynomial 23
- renormalization 93
- residual entropy 40
- resonant 18
- ring-like 44
- simple 2
- square lattice 56
- star type 64
- state 3
- Tait colouring 43
- thermodynamic limit 14
- transfer matrix 26
- transition point 16
- triangular lattice 57
- trivalent 42
- type 61
- type-invariant 62
- Universality Hypothesis 93
- valency 19
- Vanishing Coefficients 77
- vertex 2
- vertex-subgraph 78
- vertex-transitive 77
- weight function 6
- Y function 42