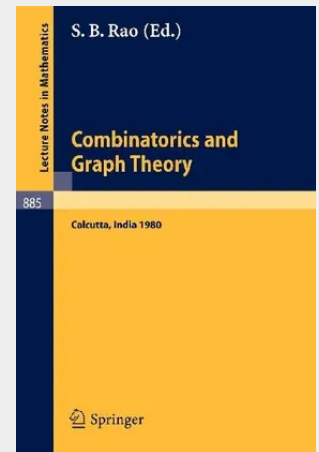


Combinatorics and Graph Theory

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Diprfect Graphs.- Some new problems and results in Graph Theory and other branches of Combinatorial Mathematics.- A form invariant multivariable polynomial representation of graphs.- Some combinatorial applications of the new linear programming algorithm.- In search of a complete invariant for graphs.- Affine triple systems.- Tables of two-graphs.- Designs, adjacency multigraphs and embeddings: A survey.- On the adjugate of a symmetrical balanced incomplete block design with $\lambda=1$.- Characterization of potentially connected integer-pair sequences.- Construction and combinatorial properties of orthogonal arrays with variable number of symbols in rows.- Construction of group divisible rotatable designs.- Some path-length properties of graphs and digraphs.- 2-2 Perfect graphic degree sequences.- Characterization of forcibly outerplanar graphic sequences.- Characterization of potentially self-complementary, self-converse degree-pair sequences for digraphs.- Set-reconstruction of chain sizes in a class of finite topologies.- Characterization of forcibly bipartite self-complementary bipartitioned sequences.- A graph theoretical recurrence formula for computing the characteristic polynomial of a matrix.- A note concerning Acharya's conjecture on a spectral measure of structural balance in a social system.- On permutation-generating strings and rosaries.- Enumeration of labelled digraphs and hypergraphs.- Analysis of a spanning tree enumeration algorithm.- Binding number, cycles and complete graphs.- A class of counterexamples to a conjecture on diameter critical graphs.- Reconstruction of a pair of connected graphs from their line-concatenations.- On domination related concepts in Graph Theory.- The local central limit theorem for Stirling numbers of the second kind and an estimate for bell numbers.- A family of hypo-hamiltonian generalized prisms.- Graphical cyclic permutation groups.- Orthogonal main effect plans with variable number of levels for factors.- On molecular and atomic matroids.- New inequalities for the parameters of an association scheme.- On the (4-3)-regular subgraph conjecture.- Enumeration of Latin rectangles via SDR's.- Nearly line regular graphs and their reconstruction.- On reconstructing separable digraphs.- Degree sequences of cacti.- A survey of the theory of potentially P-graphic and forcibly P-graphic degree sequences.- Towards a theory of forcibly hereditary P-graphic sequences.- The minimal forbidden subgraphs for generalized line-graphs.- Spectral characterization of the line graph of K_n .- Balanced arrays from association schemes and some related results.- Some further combinatorial and constructional aspects of generalized Youden designs.- Maximum degree among vertices of a non-Hamiltonian homogeneously traceable graph.

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