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outstanding introductory treatment geared toward advanced undergraduates and graduate students who require knowledge of graph theory the first nine chapters constitute an excellent overview the remaining chapters are more advanced and provide material for a variety of courses 1974 edition

there is a strong case for electrical network topologists and submodular function theorists being aware of each other's fields presenting a topological approach to electrical network theory this book demonstrates the strong links that exist between submodular functions and electrical networks the book contains a detailed discussion of graphs matroids vector spaces and the algebra of generalized minors relevant to network analysis particularly to the construction of efficient circuit

simulators a detailed discussion of submodular function theory in its own right topics covered include various operations dualization convolution and dilworth truncation as well as the related notions of principal partition and principal lattice of partitions in order to make the book useful to a wide audience the material on electrical networks and that on submodular functions is presented independently of each other the hybrid rank problem the bridge between topological electrical network theory and submodular functions is covered in the final chapter the emphasis in the book is on low complexity algorithms particularly based on bipartite graphs the book is intended for self study and is recommended to designers of vlsi algorithms more than 300 problems almost all of them with solutions are included at the end of each chapter

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in this thesis we have discussed variants of domination like vertex covering independent domination k domination k dependent set k dependent k domination total domination extended total domination k tuple domination total k domination restrained domination and total restrained domination we have characterized edges whose removal affects or does not affect these variants we have also discussed changing and unchanging of these variants in terms of edge addition between two non adjacent vertices from history we can see that much work has been done for critical graphs but existing work is related to all edges of graph but for application point of view sometimes we require to delete or add any particular edge so our work is related to any particular edge but it is applicable for all graphs when existing work for critical graphs is applicable for any edge but in some particular graph in this way our results carry more important when any particular edge is to be focused we have also discussed bondage number for some variants our results are related to relation between vertices and edges whose removal affects all these variants many research papers have been published for criticalness of graph with respect to vertex removal so our results may be link between vertices and edge removal it will insist many research scholars to do work in this direction we believe our study will become instrumental in making the relation between edge removal and vertex removal more transparent and effectively we hope our thesis provide row material for other research scholars of engineering field also

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