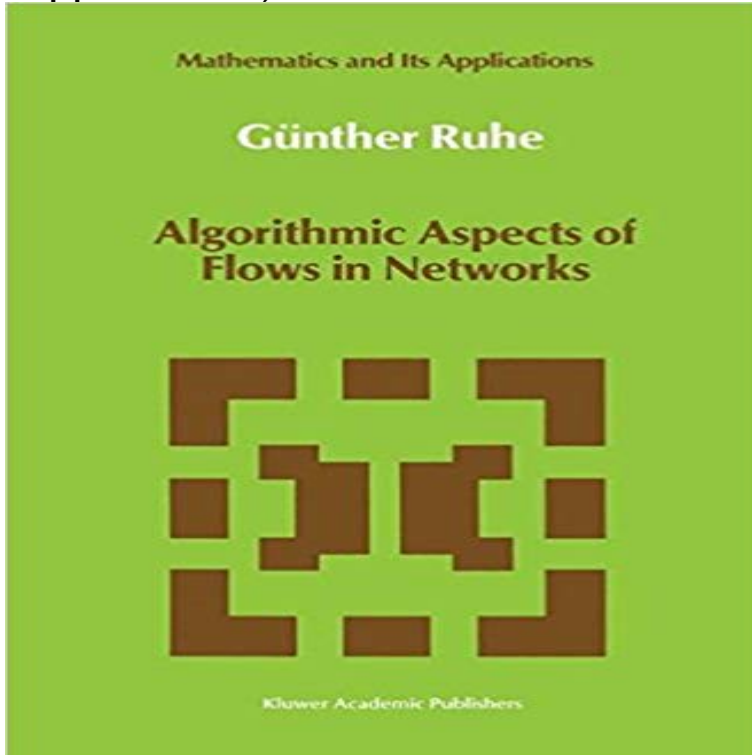


# Algorithmic Aspects of Flows in Networks (Mathematics and Its Applications)



fEt moi, . . . . sifavait sucommenten  
rcvenir, One service mathematics has  
rendered the jenyseraispointall: human  
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JulesVerne whereit belongs, on the topmost  
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allstatementsobtainablethiswayformpartoft  
heraisondetreofthisseries. This series,  
Mathematics and Its Applications, started  
in 1977. Now that over one hundred  
volumeshaveappeareditseemsopportunetore  
examineitsscope. AtthetimeIwrote  
Growing specialization and diversification  
have brought a host of monographs and  
textbooks on increasingly specialized  
topics. However, the tree of knowledge of  
mathematics and related fields does not  
grow only by puttingforth new branches. It  
also happens, quiteoften in fact, that  
branches which were thought to  
becompletely disparatearesuddenly seento  
berelated. Further,  
thekindandlevelofsophistication of  
mathematics applied in various sciences  
has changed drastically in recent years:  
measure theory is used (non-trivially)in  
regionaland theoretical economics;  
algebraic geometryinteractswithphysics;  
theMinkowskylemma,  
codingtheoryandthestructure of water meet

one another in packing and covering theory; quantum fields, crystal defects and mathematical programming profit from homotopy theory; Lie algebras are relevant to filtering; and prediction and electrical engineering can use Steinspaces. And in addition to this there are such new emerging subdisciplines as experimental mathematics, CFD, completely integrable systems, chaos, synergetics and large-scale order, which are almost impossible to fit into the existing classification schemes. They draw upon widely different sections of mathematics. By and large, all this still applies today. It is still true that at first sight mathematics seems rather fragmented and that to find, see, and exploit the deeper underlying interrelations more effort is needed and so are books that can help mathematicians and scientists do so. Accordingly MIA will continue to try to make such books available. If anything, the description I gave in 1977 is now an understatement.

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