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ROUTING ISSUES IN MANETs

By B. V. V. S. Prasad

eBooks2go. Paperback. Condition: New. 136 pages. Dimensions: 9.0in. x 6.0in. x 0.3in. This book gives a comprehensive overview of the challenges and possible solutions in Mobile Adhoc Networks with particular reference to Routing and other network topologies in order to improve the efficiency. When a routing protocol for MANET Networks (mobile and ad hoc networks) does a route discovery, it does not discover the shortest route but the route through which the route request flood traveled faster. In addition, since nodes are moving, a route that was the shortest one at discovery time might stop being so in quite a short period of time. This causes, not only a much bigger end-to-end delay, but also more collisions and faster power consumption. In order to avoid all the performance loss due to these problems, this paper develops a technique to periodically discover shortcuts to the active routes that can be used with any destination vector routing protocol. It also shows how the same mechanism can be used as a bidirectional route recovery mechanism. We consider the problem of incorporating security mechanisms into routing protocols for ad hoc networks. Canned security solutions like IPSec are not applicable. We look at AODV in detail...



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