



Investigating a New Approach to Space-Based Information Networks (Paperback)

By Naval Postgraduate School

Createspace, United States, 2015. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Just as terrestrial networks have shifted to routed, message centric networks, the satellite networking regime is beginning to transition in the same manner. Based on established networking theories and unique orbital models, a satellite based communications network architecture is modeled that would fulfill the requirements of capacity, coverage and logistics for current and future military needs. Specifically, various satellite constellations and network characteristics are examined with a focus on how to enhance current methods of routing data in this environment. The authors explore how Social Networking theories can be applied to the routing decision making process in the space environment. Utilizing aspects of adaptation and the weak-tie relationship, an adaptive hybrid routing protocol model is proposed leveraging the predictability of orbital mechanics to increase performance and decrease network overhead.



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