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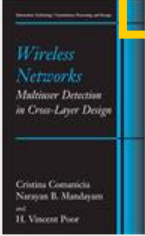
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1.   Introduction to Radio Resource Allocation

A common characteristic of multiple access wireless communication systems is that their capacity is limited by interference. As a result, admission of a new user into such a system results in more interference to the existing users and a consequent degradation in their signal quality. When the number of active users in the network reaches a certain value, the quality of transmission can become unacceptably low due to interference, implying that additional users cannot be admitted immediately if a certain Quality of Service (QoS) is required. Further, an inherent characteristic of wireless channels is the variation encountered in space, time and frequency due to mobility and to propagation effects encountered by radio waves. The propagation effects are usually classified into two categories: small-scale fluctuations due to scattering, and large-scale fluctuations due to shadowing. The traditional treatment of resource allocation in wireless systems is based on signal quality measurements that are averaged over time scales where small-scale fluctuations become insignificant. As a result, most approaches to understanding and designing resource allocation strategies take into consideration primarily path loss models and occasionally slowly varying large-scale fading effects due to shadowing.