Abstract

Due to the insufficiency of available bandwidth and the continuously growing demand for cellular communication services, there are many cells using same frequency band. All the cell using the same channel are physically located apart by at least reused distance, even though the power level is controlled carefully so that such "co-channels" do not create a problem for each other, there is still some degree of interference due to non-zero signal strength of such cells. This paper concludes Reuse distance (D) with respect to the co-channel interference ratio (CCIR) for mobile station at the various distances from base station (BS).

References

Simulation of Co-channel Interference Ratio (CCIR) for Directional Antenna in Mobile Computing

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Index Terms

- Computer Science
- Wireless Communications

Keywords

- CCIR
- Reuse Distance
- Non-zero Signal Strength
- Mobile Station (ms)
- Base Station (bs)