

CELLULAR DESIGN – “AN APPROACH TO INCREASE THE SIGNAL TO INTERFERENCE RATIO”

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Abstract

Cellular system is an important part of telecommunication which provides a better communication and good efficiency. Cellular concept is used to increase the number of users, provide quality and grade of service by reuse of frequency band provided for wireless communication but due to reuse of frequency co-channel interference and inter channel interference arises which increases the interference in the network causing signal to interference ratio to decrease and if signal to interference ratio decreases then the efficiency and quality of communication decreases. In the current system hexagonal cell structure is used and we are proposing the different cell structure to provide better handoff and better signal to interference ratio. Our proposed structure will provide the same coverage area, high user capacity, high call quality, better handoff and increased SIR.

Keywords : SIR, CCI, ACI, Interference

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