ß

#### 2G, 3G Network Planning and Optimization...

0

### Экономия бензина

http://depositfiles.com/files/zsxl7kqoq

## Tak.ru

Оплаченная Реклама:

- lcq
- НТВ+ по доступной цене. Бесплатный тест!
  SurfSitMoney (jetswap) рэфбек от 120% до 200%
- SurfSitIVoney (jetswap) рэфбек от 120% до 200%
- Зобачев Жлобин
- Дипломные работы
- CARscope.ru: автомобильный журнал
- Наш Родной Малый Седяк
- группа континент
- Plea

## **Archives**

#### ▼ 2009 (56)

- Октябрь (15)
- ▼ Сентябрь (41)
- 3.8 Network Capacity Comparison For the comparis...
- 3.7 Multiple Reuse Pattern Technology3.7.1 Basic..
- 3.6 Concentric Cell Technology 3.6.1 Concept I...
- 3.5 Aggressive Frequency Reuse Technology
- 3.5.1 ...
- 3.4 Normal Frequency Reuse Technology 3.4.1 C...
- 3.3 Frequency Planning Principle Generally, when ...
- 3.2 Frequency Division and C/I Requirement 3.2.1 ... 3 GSM Frequency Planning 3.1 Overview Frequency
- 2.13 Conclusion Network planning is the foundatio...
- 2.12 Repeater Planning 2.12.1 Application Backg...
- 2.11 Tunnel Coverage 2.11.1 Characteristic of T...
- 2.10 Design of Indoor Coverage System 2.10.1 Ch...
- 2. To besign of indoor coverage systems. To: I Cri...
- 2.9 Dual-Band Network Design 2.9.1 Necessity for...
- 2.8 Location Area Design 2.8.1 Definition of Loc...
- 2.7 Design of Base Station Address 2.7.1 Address
- 2.6 Base Station Number Decision After traffic an...
- 2.5 Traffic Analysis 2.5.1 Traffic Prediction an...
- 2.4 Network Structure Analysis When considering
- t...

# 2.3 Coverage Analysis 2.3.1 Area Division I. Typ..

- 2.2 Hanning Foundation 2.2.1 Coverage and Capacit...
- 2 GSM Radio Network Planning 2.1 Overview The de...
- 1.17 CBS Cell Broadcast Service (CBS) is similar ...
- 1.16 Call Re-Establishment 1.16.1 Introduction ...
- 1.15 HOAs a key technology in the cellular mobil..
- 1.14 MS Originated Call Flow 1.14.1 Enquiry Afte ...
- 1.13 MS Originating Call Flow The MS needs to set ...
- 1.12 Location Update In GSM, the paging informati..
- 1.11 Authentication and Encryption GSM takes lots...
- 1.10 Immediate Assignment Procedure The purpose
- 1.9 Pow er Control 1.9.1 Pow er Control Overview P...
- 1.8 Discontinuous Reception and Discontinuous
- Tra...
- 1.7 Frequency Hopping With the ever growing traff...
- 1.6 Cell Selection and Re-Selection 1.6.1 Cell S...
- 1.5 System Information System information is sent ...
- 1.4 Timing advance Signal transmission has a dela...
- 1.3 Data Transmission Radio channel has totally d...
- 1.2 Multiple Access Technology and Logical Channel...
- 1 GSM Principles and Call Row 1.1 GSM Frequency

Radio Network Ranning Optimization The objective ... History of GSM1 GSM Development Nobile telecommun

### четверг, 3 сентября 2009 г.

### 2.3 Coverage Analysis

2.3.1 Area Division I. Types of coverage area

The signal propagation models are applied in accordance with the propagation environments in areas of different types. The signal propagation models decide the design principles, network structures, grade of services and frequency reuse modes for the radio networks in coverage areas. In order to decide the cell coverage areas, you can the radio coverage areas into the following four types:

Create Blog Sign In

- Big city
- Middle-sized city
- Small town
- Countryside
- Country Side

Big city

- Dense population
- Developed economy
- Large traffic
- Dense high buildings and mansions distributed in center areas
- Flourishing shopping centers
- Middle-sized city
- Relatively dense population
- Relatively developed economy
- Relatively large traffic
- Dense buildings distributed in center areas
- Active and promising shopping centers
- Small town
- Relative large population
- Promising economic development
- Moderate traffic
- Relative dense buildings distributed in center areas
- A certain scale of shopping centers but with great potentiality
- Countryside
- Scattered population
- Developing economy
- Low traffic

Railway

Remark:

- Sea-route

In addition, you must consider the coverage of the areas at the intersections and various transport arteries, including:

Generally, it is recommended to apply omni base stations in the countries plains and the areas with restricted landforms. In big cities, middle-sized cities, and along expressways, it is recommended to

When defining the field strength of the uplink edges of a service area, you must consider the factors:

- To ensure the indoor coverage in big and middle-sized cities, you can consider 15dB for the average

- Radio links have two directions, namely, uplink direction and downlink direction, and the coverage area

is defined by the direction in which the signals are poor, so you must consider the uplink and downlink

balance. Therefore, if you intend to plan an ideal network, you must make a good power control budget

The definition of coverage probability varies with the coverage areas, and the coverage probability is

Generally, a call must be ensured to access the network at 90% of the places and 99% of the time

- For transport arteries, different standards are applied, and the coverage probability can be defined in

- Generally, the propagation loss of GSM 1800MHz signals is 8 dB greater than that of the GSM

penetration loss between buildings and consider adding 5dB to the protection margin.

- Express way
- National high way
- Provincial highway

Roads in mountain areas

apply directional base stations.

900MHz signals in average.

III. Define coverage probability

within the coverage area.

Mobile station sensitivity -102 dBm

II. Define the field strength at coverage area edges

Fast fading protection 4 dB (3 dB for countryside)

Slow fading protection 8 dB (6 dB for countryside)

Noise (environmental noise and interfering noise) protection 5 dB

so that the uplink and downlink can be as balance as possible.

gradually improved along with the construction of the network.

- For the areas in countryside, the two ratios can be lower.

accordance with the types of the arteries.

- For the outdoor environment in big cities, the two ratios must be greater.

2G&3G Planning an Optimization	2.3.2 Radio Environment Survey Through surveying radio propagation environments, you can get familiar with the overall landforms, estimate the rough antenna height, and select the proper radio propagation model, among which the radio propagation model helps you estimate the number of base station when predicting the coverage. If necessary, you must adjust the propagation model. Aerop: ourdot Ha 1:04
от риней 136 24 чися 51 51	0 коммент.: Отправить комментарий
СЕГОДНЯ <sup>-</sup> 9 Няпинии 4 Няпинии 4	
Hit	
Постоянные читатели	Подпись комментария: Выбрать профиль 🗢
	Отправить комментарий Просмотр
	Следующее Главная страница Предыдущее
	Подписаться на: <u>Комментарии к сообщению (Atom)</u>