

大同大學 九十五 學年度研究所碩士在職班入學考試試題

考試科目:科技英文

所別:通訊工程研究所

第 1/1 頁

註:本次考試 不可以參考自己的書籍及筆記; 不可以使用字典; 不可以使用計算器。

Please translate the following paragraphs into Chinese.

(每題20分)

1. The goal of digital design is to maximize the performance while keeping the cost down. In the context of general digital design, performance is measured in terms of the amount of hardware circuitry and resources required ; the speed of execution, which depends on both throughput and clock rate ; and the amount of power dissipation or total energy required to perform a given task.
2. A radio frequency identification (RFID) tag includes an antenna configuration coupled to an RFID chip, such as in an RFID strap. The antenna configuration is mounted on one face (major surface) of a dielectric material, and includes compensation elements to compensate at least to some extent for various types of dielectric material upon which the antenna configuration may be mounted. In addition, a conductive structure, such as a ground plane or other layer of conductive material, may be placed on a second major surface of the dielectric layer, on an opposite side of the dielectric layer from the antenna structure.
3. In a typical cell radius deployment of three to 10 kilometers, WiMAX systems can be expected to deliver capacity of up to 40 Mbps per channel. This is enough bandwidth to simultaneously support hundreds of businesses with T-1 speed connectivity and thousands of residences with DSL speed connectivity.
4. A digital filter is a mathematical algorithm implemented in hardware and/or software that operates on a digital input signal to produce a digital output signal for the purpose of achieving a filtering objective. The term digital filter refers to the specific hardware or software routine that performs the filtering algorithm. Digital filters often operate on digitized analog signals or just numbers, representing some variables, stored in a computer memory.
5. It is becoming increasingly clear -- on Wall Street and beyond -- that just as established brick-and-mortar companies must maintain capital spending to remain competitive, Web companies, too, must keep spending for workers and customers, as well as for the technology that keeps their businesses humming.