

大同大學 九十六 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. In some cases, a system creates a digital signal internally—for example, in speech synthesis or when generating tones for telephone dialing. Random number generators, trigonometric functions, table-lookups, and other algorithms allow us to generate a wide variety of signals. If we change these tables or other parameters dynamically, we can end up with quite sophisticated output signals.
2. Content-aware networks allow Internet service providers to filter, transform, and route critical business data to enterprise customers and their partners based on their unique interests and data formats.
3. Microstrip patch antenna has many important characteristics, such as small size, light weight, low profile, low cost, easily integrated with circuits. It can also easily be controlled to generate CP waves. In this paper, we investigate design of a 915MHz (902-928MHz) circularly polarized reader antenna. The 915MHz RFID technology is widely utilized for non-contact identification application.
4. When considering important applications of digital communication principles, it is natural to think in terms of broadcasting and point-to-point communication systems. Nevertheless, the very same principles are also applied to the digital storage of audio and video signals, exemplified by compact disc (CD) and digital versatile disc (DVD) players. DVDs are refinements of CDs in that their storage capacity are orders of magnitude higher than that of CDs.
5. A digital system is said to operate in a serial mode when information is transferred and manipulated one bit at a time. Information is transferred one bit at a time by shifting the bits out of the source register into the destination register. This is in contrast to parallel transfer where all the bits of the register are transferred at the same time.