

# 大同大學 九十三 學年度研究所碩士在職班入學考試試題<sup>104</sup>

考試科目：科技英文

所別：電機工程研究所

第 1/2 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。

請將以下英文翻譯成中文

1. Error control coding is a key element of any digital wireless communication system, minimizing the effects of noise and interference on the transmitted signal at the physical layer. It is typically one of the most computationally intensive and power-consuming tasks and is therefore normally implemented in a dedicated hardware.
2. The high-frequency response of the common-source amplifier is limited by the Miller effect, which multiplies the feedback gate-drain capacitance by the gain of the amplifier and forms a dominant pole at the input. The bandwidth can be extended by reducing the source resistance and/or the load resistance. The latter action reduces the gain.
3. Motivated by recent advances in designing robust adaptive controllers and in dealing with uncertain dynamical systems, a new model reference adaptive control which is robust to a class of unmodeled dynamics and bounded output disturbances in the case of relative degree one is presented.
4. The effect of feedback on stability, transient and steady-state behavior is seen, and simple feedback systems are discussed. Feedback can do the following: Decrease the sensitivity to parameter changes in the open-loop system. Eliminate steady-state errors if there are enough integrators in the open-loop system.
5. The exploitation of the perceptual redundancy inherent in digital images has been proven successful in enhancing the performance of many digital image processing systems such as those for data compression, watermarking and segmentation.

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6. So far, half the states in the United States have adopted rules for separating, or unbundling, generation, transmission, and distribution. Usually, generation is made subject to competition, distribution is left a state-regulated monopoly, and transmission is placed under the management of newly established independent system operators and soon-to-come regional transmission organizations, regulated by Federal Energy Regulatory Commission (FERC), Washington, D.C.
7. Differential equations are interesting and important because they express relationships involving rates of change. A first-order differential equation is any equation involving a first derivative, but no higher derivative.

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