

國立高雄科技大學電機與資訊學院建工校區

電子工程系博士班

電腦與通訊工程組資格考核筆試參考用書

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考試科目	用書及範圍
線性代數	Steven J. Leon, <i>Linear Algebra with Applications</i> , 10 th ed. (Global Edition), Pearson Prentice Hall, 2021. 範圍：Chapter 1, 2, 3, 4 (all sections), Chapter 5 (section 1, 2, 3, 5, 6), Chapter 6 (section 1, 3, 4)
隨機變數與統計	Alberto Leon-Garcia, <i>Probability, Statistics, and Random Processes for Electrical Engineering</i> , 3rd ed., Prentice Hall, 2008. 範圍：Ch3.1~3.5, Ch4.1~4.7, Ch5.1~5.9, Ch6.1~6.4, Ch7.1~7.3
電子學	Behzad Razavi, <i>Fundamentals of Microelectronics</i> , 2nd ed., John Wiley & Sons, 2012.
作業系統	Abraham Silberschatz, Peter Baer Galvin, and Greg Gagne, <i>Operating System Concepts</i> 10/e global edition, John Wiley & Sons, 2019. (新月代理) 範圍：Part One~Part Five
通訊原理	Bruce Carlson, <i>Communication Systems</i> , 5th ed., McGraw-Hill. 範圍：Ch1~Ch6, Ch11, Ch14.
訊號與系統	J. H. McClellan, R. W. Schafer and M. A. Yoder, "DSP First" Global Edition, 2/E, Pearson Education, Inc., Hoboken, NJ, USA, 2016. (開發代理)
電腦演算法	R.C.T. Lee, S.S. Tseng, R.C. Chang, Y.T. Tsai, <i>Introduction to the Design and Analysis of Algorithms: A Strategic Approach</i> , McGraw-Hill, International Edition, 2008.
計算機組織	D.A. Patterson and J.L. Hennessy, <i>Computer Organization and Design: The Hardware/Software Interface</i> , 5th ed., Morgan Kaufmann, 2014. 範圍：Ch.1~6.
離散數學	B. Kolman, R. C. Busby, and S. C. Ross, <i>Discrete Mathematical Structures</i> , 6 th ed., Pearson, 2009. 範圍：Ch. 1~8. (新月圖書代理)
資料庫系統	Abraham Silberschatz and Henry F. Korth, <i>Database System Concepts</i> , 6th ed., Mc Graw Hill, 2011. (新月圖書代理)
資料結構	Ellis Horowitz, Sartaj Sahni, and Susan Anderson-Freed, <i>Fundamentals of Data Structures in C</i> , 2nd ed., Silicon Press, 2007. (開發代理)
數位系統設計	Volnei A. Pedroni, <i>Circuit Design with VHDL</i> , MIT Press, 2004. (開發代理)
電路學	Raymond A. DeCarlo and Pen-Min Lin, <i>Linear Circuit Analysis</i> , 2nd ed., Oxford University Press, 2001.
複變數	Dannis G. Zill and Patrick D. Shanahan, <i>A First Course in Complex Analysis with Applications</i> , 2nd ed., Jones & Bartlett Publishers, 2009. (滄海代理)

