

EE3101 DIGITAL SIGNAL PROCESSING

by A/P Lian Yong & A/P Lim YC

1. Digital Signal Processing
- Paulo S.R. Diniz, Eduardo A.B.da Silva, and Sergio L. Netto
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- *2. *Digital Signal Processing : Principles, Algorithms, and Applications*
- John G. Proakis and Dimitris G. Manolakis
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- *3. *Digital Signal Processing : A computer-Based Approach*
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EE3103 COMMUNICATIONS

by Dr Mehul M & Prof Lawrence Wong

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- JE Flood
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- *7. *Analog & Digital Communication Systems*
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- *8. *An Introduction To Analog And Digital Communications*

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EE3204 COMPUTER COMMUNICATION NETWORK I

by Dr G Mohan & Dr Ian Thng

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Peterson & Davie
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2. Data & Computer Communications
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3. Computer Networks
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4. Communication Networks: Fundamental Concepts and Key Architectures
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EE3206 INTRODUCTION TO COMPUTER VISION & IMAGE PROCESSING

by A/P SH Ong

1. Digital Image Processing
- RC Gonzalez and RE Woods
- Prentice Hall, 2001
- *2. *Fundamentals of Electronic Image Processing*
- AR Weeks, Jr.
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- *4. *The Image Processing Handbook*
- JC Russ
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EE3207 COMPUTER ARCHITECTURE

by A/P TT Tay

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- Addison-Wesley, 1992
2. Computer System Architecture
- M Morris Mano
- 3rd Edition, Prentice-Hall 1993
- *3. *Computer Architecture: A Quantitative Approach*
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EE3208 EMBEDDED COMPUTER SYSTEMS DESIGN*by A/P TT Tay*

1. The Intel Microprocessors 8080/8088, 80186/80188, 80286, 80386, 80486, Pentium, and Pentium Pro Processor, Architecture, Programming, and Interfacing,
- Barry B Brey
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EE3302 INDUSTRIAL CONTROL SYSTEMS*by A/P Sam Ge & A/P KK Tan*

1. Process Control Instrumentation Technology
- CD Johnson
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2. Process Control in Practice
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- *5. *PC Interfacing for Laboratory Data Acquisition and Process Control*
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EE3403 INTEGRATED CIRCUITS DESIGN*by Prof YC Lim*

- *1. *CMOS Digital Integrated Circuits*
- S M Kang and Y Leblebici
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- *3. *Analysis and Design of Analog Integrated Circuits*
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EE3406 MICROELECTRONICS MATERIALS*by Dr Vivian Ng & Dr KL Teo*

1. Principles of Electrical Engineering Materials and Devices,
- SO Kasap

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- *2. *Principles of Material Science and Engineering*,
- WF Smith
- 3rd Edition, McGraw-Hill, 1996.
- *3. *Introduction to solid state physics*
- Kittel, Charles
- 7th Edition, Wiley, 1996.
- *4. *Solid State Physics*,
- J.R. Hook & H.E. Hall,
- 2nd Edition, 1991, Wiley.

EE3407 ANALOG ELECTRONICS

by A/P MK Haldar & A/P SS Ng

- 1. Microelectronic Circuits,
- Sedra and Smith
- 4th Edition

EE3505 ENERGY SYSTEMS

by Dr Devotta JBX & Dr Srinivasan D

Compulsory reading

- 1. H. Saadat, "Power Systems Analysis", McGraw Hill; 1998
- 2. Z. Yamayee & Bala, "Electromechanical Energy Devices and Power Systems", Wiley, 1994

Supplementary reading

- 1. J J Grainger & W D Stevenson, "Power System Analysis", McGraw Hill; 1994
- 2. M. Shahidehpour and M. Alomoush, "Restructured electrical power systems : operation, trading, and volatility" Marcel Dekker, 2001
- 3. Surya Santoso, H. Wayne Beaty, Roger C. Dugan, Mark F. McGranaghan, "Electrical Power Systems Quality" McGraw Hill, November 200