

Mba R07 Syllabus Jntu 9

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Environmental Engineering IV, Analog Communication, High Voltage Engineering, Microcontrollers, POWER SYSTEM ENGINEERING 2E, Physics of Semiconductor Devices, Electrical Machines, Digital Ic Applications, Managerial Economics and Financial Analysis, Social Networks and the Semantic Web

Environmental engineering has a leading role in the elimination of ecological threats, and deals, in brief, with securing technically the conditions which create a safe environment for mankind to live in. Due to its interdisciplinary character it can deal with a wide range of technical and technological problems. Since environmental engineering uses the knowledge of the basic sciences – biology, chemistry, biochemistry and physics – it is able to neutralise pollution in all the elements of the environment, i.e. the hydrosphere, atmosphere and lithosphere. Moreover, environmental engineering deals with the design and maintenance of systems of water supply, sewage disposal, heating, ventilation and air-conditioning in buildings. Environmental Engineering IV contains 77 peer reviewed papers selected from 527 presented at the 4th Congress of Environmental Engineering (Lublin, Poland, 2-5 September 2012). The contributions are divided into 7 chapters: • Water supply • Water and wastewater treatment • Neutralization of solid wastes and sludge • Air protection and quality • Indoor microclimate • Energy • Biology and technology Environmental Engineering IV assesses the state of scientific research in various areas of environmental engineering, evaluates the organizational, technical and technological progress made in contributing to ecological security, and determines the place of environmental engineering in sustainable development, taking into account current political and economic conditions, and is a valuable source of information for the environmental engineering professional and academic community.

Amplitude Modulation Introduction. Amplitude Modulation : Time-domain description, Frequency-domain description, Generation of AM wave : Square law modulator, Switching modulator. Detection of AM waves : Square law detector, Envelope detector. Double sideband suppressed carrier modulation (DSBSC) : Time-domain description. Frequency-domain representation. Generation of DSBSC waves : Balanced modulator, Ring modulator. Coherent detection of DSBSC modulated waves. Costas loop. Quadrature carrier multiplexing. Hilbert transform, Properties of Hilbert transform, Pre-envelope, Canonical representation of bandpass signals, Single sideband modulation, Frequency-domain description of SSB modulated signals, Frequency discrimination method for generating an SSB modulated wave, Time-domain description, Phase discrimination method for generating an SSB modulated wave, Demodulation of SSB wave. Vestigial sideband modulation, Frequency-domain description, Generation of VSB modulated wave, Time-domain description, Envelope detection of VSB wave plus carrier, Comparison of amplitude modulation techniques, Frequency translation, Frequency division multiplexing, Application : Radio broadcasting, AM radio, Television, Color television, High definition television. Angle Modulation Basic definitions, Frequency modulation, Narrow band frequency modulation, Wide band frequency modulation, Transmission bandwidth of FM waves, Generation of FM waves : Indirect FM and direct FM, Demodulation of FM waves, FM stereo multiplexing, Phase-locked loop, Nonlinear model the phase-locked loop. Linear model of phase-locked loop. Nonlinear effects in FM systems. Random Processes Introduction, Probability theory : Relative-frequency approach, Axioms of probability, Conditional probability, Random variables : Several random variables. Statistical averages : Function of random variables, moments. Random process stationarity. Mean, Correlation and Covariance functions : Properties of the autocorrelation function, Cross-correlation functions, Power spectral density : Properties of the spectral density, Gaussian process : Central limit theorem, Properties of Gaussian process. Noise Introduction, Short noise, Thermal noise, White noise, Noise equivalent bandwidth, Narrowband noise, Noise figure, Equivalent noise temperature, Cascade connection of two-port networks. Noise in Continuous Wave Modulation Systems Introduction, Receiver model, Noise in DSB-SC receivers, Noise in SSB receivers, Noise in AM receivers, Threshold effect, Noise in FM receivers, FM threshold effect, Pre-emphasis and De-emphasis in FM, Summary and discussion.

High Voltage Engineering Has Been Written For The Undergraduate Students In Electrical Engineering Of Indian And Foreign Universities As Well As The Practising Engineers. It Deals In Mechanism Of Breakdown Of Insulating Materials, Generation And Measurement Of High A.C., D.C., Impulse Voltages And Currents. High Voltage Testing Of Some Of The Electrical Equipments E.G. Insulators, Cables, Transformers As Per Standard Specifications Has Been Explained. Various Methods Of Non Destructive Testing Which Yield Information Regarding Life Expectancy And The Long Term Stability Or Otherwise Of The Insulating Materials Have Been Discussed. The Book Takes A View Of Various Types Of Transients In Power System And Suggests Classical And More Modern Statistical Methods Of Co-Ordinating The Insulation Requirements Of The System. A Suitable

Number Of Problems Have Been Solved To Help Understand The Theory. At The End, A Large Number Of Multiple Choice Questions Have Been Added To Help The Students To Test Themselves. A Few Photoplates Have Been Added At Suitable Locations In The Book To Give A Physical Feel Of Various Equipments In A Well Equipped High Voltage Laboratory.

The book focuses on 8051 microcontrollers and prepares the students for system development using the 8051 as well as 68HC11, 80x96 and lately popular ARM family microcontrollers. A key feature is the clear explanation of the use of RTOS, software building blocks, interrupt handling mechanism, timers, IDE and interfacing circuits. Apart from the general architecture of the microcontrollers, it also covers programming, interfacing and system design aspects.

This hallmark text on "Power System Engineering" has been revised extensively to bring in several new topics and update the contents with the latest technological developments. The book now covers the complete undergraduate syllabus of Power System Engineering course. All topics are supported with examples employing two/three/four bus structures. Key features Enlarged and revised chapter 1 on introduction to Power System Analysis New chapters on Voltage Stability Underground Cables Insulators for Overhead Lines Mechanical Design of Transmission Lines Neutral Grounding Corona High Voltage DC (HVDC) Transmission New Topics on Maintenance scheduling (Chapter 7) AGC of restructured power (Chapter 8) Power Transformer (Chapter 4) Midline Boosters (Chapter 5) New Appendices on Appendix on MATLAB and SIMULINK ? programs for power system analysis Appendix on Power Quality Pedagogy : Solved Examples: 110 Practice Problems: 170 Objective Type Questions: 221

The Third Edition of the standard textbook and reference in the field of semiconductor devices This classic book has set the standard for advanced study and reference in the semiconductor device field. Now completely updated and reorganized to reflect the tremendous advances in device concepts and performance, this Third Edition remains the most detailed and exhaustive single source of information on the most important semiconductor devices. It gives readers immediate access to detailed descriptions of the underlying physics and performance characteristics of all major bipolar, field-effect, microwave, photonic, and sensor devices. Designed for graduate textbook adoptions and reference needs, this new edition includes: A complete update of the latest developments New devices such as three-dimensional MOSFETs, MODFETs, resonant-tunneling diodes, semiconductor sensors, quantum-cascade lasers, single-electron transistors, real-space transfer devices, and more Materials completely reorganized Problem sets at the end of each chapter All figures reproduced at the highest quality Physics of Semiconductor Devices, Third Edition offers engineers, research scientists, faculty, and students a practical basis for understanding the most important devices in use today and for evaluating future device performance and limitations. A Solutions Manual is available from the editorial department.

CMOS Logic Introduction to logic families, CMOS logic, CMOS steady state electrical behavior, CMOS dynamic electrical behavior, CMOS logic families. Bipolar Logic and Interfacing Bipolar logic, Transistor logic, TTL families, CMOS/TTL interfacing, Low voltage CMOS logic and interfacing, Emitter coupled logic, Comparison of logic families, Familiarity with standard 74XX and CMOS 40XX series, ICs-Specifications. The VHDL Hardware Description Language Design flow, Program structure, Types and constants, Functions and procedures, Libraries and packages. The VHDL Design Elements Structural design elements, Data flow design elements, Behavioral design elements, Time dimension and simulation synthesis. Combinational Logic Design Decoders, Encoders, Three state devices, Multiplexers and demultiplexers, Code converters, EX-OR gates and parity circuits, Comparators, Adders and subtractors, ALUs, Combinational multipliers. VHDL code for the above ICs. Design Examples (using VHDL) Design examples (using VHDL) Barrel shifter, Comparators, Floating-point encoder, Dual parity encoder. Sequential Logic Design Latches and flip-flops, PLDs, Counters, Shift register and their VHDL models, Synchronous design methodology, Impediments to synchronous design. Memories ROMs : Internal structure, 2D-decoding commercial types, Timing and applications. Static RAM : Internal structure, SRAM timing, Standard SRAMS, Synchronous SRAMS. Dynamic RAM : Internal structure, Timing, Synchronous DRAMS. Familiarity with component data sheets-Cypress CY6116, CY7C1006, Specifications.

Chapter 1 Introduction to Managerial Economics Chapter 2 Elasticity of Demand Chapter 3 Theory of Production Function and Cost Analysis Chapter 4 Market Structures Chapter 5 Business and New Economic Environment Chapter 6 Capital and Capital Budgeting Chapter 7 Introduction to Financial Accounting Chapter 8 Financial Analysis Through Ratios Multiple Choice Questions Answers to MCQs Index

Social Networks and the Semantic Web offers valuable information to practitioners developing social-semantic software for the Web. It provides two major case studies. The first case study shows the possibilities of tracking a research community over the Web. It reveals how social network mining from the web plays an

important role for obtaining large scale, dynamic network data beyond the possibilities of survey methods. The second case study highlights the role of the social context in user-generated classifications in content, such as the tagging systems known as folksonomies.

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