



# Digital Communication

By P. Ramakrishna Rao

McGraw Hill Education, 2011. Softcover. Book Condition: New. First edition. Digital Communication is a core subject for all Electronics and Communication Engineering (ECE) students at the undergraduate level. This book adopts an approach best suited at the undergraduate level? concepts are explained thoroughly using simple and lucid language; mathematical analysis used wherever necessary and the results and their implications elucidated clearly. Contents: 1. Introduction 2. Inductance and Resistance of Transmission Lines 3. Capacitance of Transmission Lines 4. Representation of Power System Components 5. Characteristics and Performance of Power Transmission Lines 6. Load Flow Studies 7. Optimal System Operation 8. Automatic Generation and Voltage Control 9. Symmetrical Fault Analysis 10. Symmetrical Components 11. Unsymmetrical Fault Analysis 12. Power System Stability 13. Power System Transients 14. High Voltage DC (HVDC) Transmission 15. Power System Security 16. Voltage Stability 17. An Introduction to State Estimation of Power Systems 18. Compensation in Power Systems 19. Load Forecasting Technique Appendix A: Introduction to Vector and Matrix Algebra Appendix B: Generalised Circuit Constants Appendix C: Triangular Factorisation and Optimal Ordering Appendix D: Elements of Power System Jacobian Matrix Appendix E: Kuhn-Tucker Theorem Appendix F: Real-time Computer Control of Power Systems Appendix G: Some Aspects of Smart Grid...



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