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Electric Machines and Power Systems: Electric machines S. A. Nasar, 1995 This text offers a practical approach to electric machines featuring explanations of fundamental principles examples of real world applications and attention to the fine details of design and operation Many worked examples are provided as well as hundreds of homework problems and discussions of modern topics such as power electronics DC machines and permanent magnet machines The chapters are organized to expand logically upon previous subjects including enough advanced material to serve as a valuable reference tool for continuing students **Probability, Random Variables, and Random Signal Principles** Peyton Z. Peebles, 1993 Today any well designed electrical engineering curriculum must train engineers to account for noise and random signals in systems The best approach is to emphasize fundamental principles since systems can vary greatly Professor Peebles's book specifically has this emphasis offering clear and concise coverage of the theories of probability random variables and random signals including the response of linear networks to random waveforms By careful organization the book allows learning to flow naturally from the most elementary to the most advanced subjects Time domain descriptions of the concepts are first

introduced followed by a thorough description of random signals using frequency domain Practical applications are not forgotten and the book includes discussions of practical noises noise figures and noise temperatures and an entire special chapter on applications of the theory Another chapter is devoted to optimum networks when noise is present matched filters and Wiener filters This third edition differs from earlier editions mainly in making the book more useful for classroom use Beside the addition of new topics Poisson random processes measurement of power spectra and computer generation of random variables the main change involves adding many new end of chapter exercises 180 were added for a total of over 800 exercises The new exercises are all clearly identified for instructors who have used the previous edition

Linear Control System Analysis and Design John Joachim D'Azzo, Constantine H. Houppis, 1995 This revised edition emphasizes undergraduate topics and the use of CAD programs while providing a rigorous treatment of advanced topics and derivation techniques Organized logically and for maximum teaching flexibility it instills the basic principles of feedback control essential to all specialty areas of engineering

Power Electronics Joseph Vithayathil, 1995 This text provides an introduction to the field of power electronics emphasizing real world applications It covers topics such as power quality and vector control power semiconductor devices multiphase choppers and PWM inverters and adjustable speed AC and DC motor drives

Physical Foundations of Solid State and Electron Devices A. M. Ferendeci, 1991 Introductory Physical Concepts Bound Particles Equilibrium Statistical Mechanics Interacting Particles Concepts Basic Properties of Solids Extrinsic Semiconductors Electron Emission Junctions and Related Devices Bipolar Junction Transistors Junction Field Effect Transistors JFET Metal Oxide Semiconductor Transistors High Frequency solid State Devices Electro Optic Devices Semiconductor and Integrated Circuits Processing Technology Gas Discharges Noise Physical Constants

Electronic Circuits, Discrete and Integrated Donald L. Schilling, 1989 *Computational Aids in Control Systems Using MATLAB* Hadi Saadat, 1993 Accompanying computer disk contains functions and examples developed by the author

Introduction to Operational Amplifier Theory and Applications John V. Wait, Lawrence P. Huelsman, Granino Arthur Korn, 1992 This senior graduate level text with its concise and direct treatment of the subject emphasizes the design of circuits and systems which use operational amplifiers The effect of amplifier specifications on circuit performance are treated in detail Separate chapters cover major applications topics including the design of active RC filters electronic switchers and analog digital digital analog interfacing subscriptions

Power System Analysis John Grainger, William D. Stevenson, 1994 This updated edition includes coverage of power system estimation including current developments in the field discussion of system control which is a key topic covering economic factors of line losses and penalty factors and new problems and examples throughout

Digital Filters Andreas Antoniou, 1993 This final year postgraduate text for courses in digital filters or digital signal processing deals with the construction of algorithms that filter data into useful information It starts with the basics and goes on to cover advanced topics such as recursive and non recursive filters including optimization techniques wave

digital filters and DFTs A new chapter on the application of digital signal processing offers up to date techniques and there are new problems and examples throughout A solutions manual is available 0 07 002122 8 **Computers** Larry L. Wear,1991 General literature Introductory and Survey **Mathematics** Barry Max Brandenberger,2002 This new series offers the most comprehensive views of key areas in the world of science Each set explores all facets of the topic offering not only descriptive and analytical information but also cultural and ethical issues and career opportunities in many fields of science **Electronics Now** ,1998

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