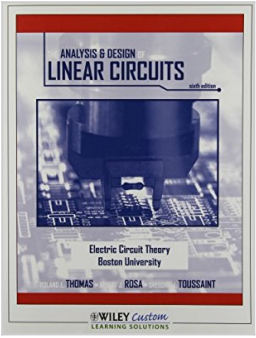

The Analysis & Design of Linear Circuits

By Thomas Roland E./ Rosa Albert J./ Toussa

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An introductory text on Electric Circuits, their analysis, design, and evaluation. Text focuses on real-world applications and emphasizes the use of computers to assist the designer in his/her task. Early introduction to circuit design motivates the student to create circuit solutions and to optimize his/her design based on real-world constraints. The text covers three major blocks in sixteen chapters. Chapters 1-5 cover dc circuits including dependent sources, the ideal Op Amp, and interface design. Chapters 6-12 cover ac circuits using both a traditional Phasor approach and a more efficient Laplace early approach to include a signals chapter and transient and frequency responses in both the time and frequency domains. The last block deals with applications and extensions of the first two blocks covering Fourier Analysis, multipole active filters, coupled coils and transformers, and ac power systems. The text has over 300 worked examples followed by 366 exercises. Over a thousand pedagogically developed homework problems structured around a sequence of carefully defined learning objectives and related evaluation tools allow students to master their analysis, design, and evaluation skills. This edition of the text emphasizes computer-based analysis and design by expanding the number of examples, exercises, and problems using software for mathematical computation and circuit simulation. An ABET-friendly text with numerous features that can assist a program to meet accreditation criteria. Practical topics, easy-to-learn organization, and emphasis on design make this text useful to both ECE and other engineering and technical disciplines.

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