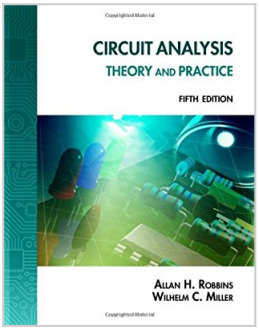

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By Allan H. Robbins, Wilhelm C Miller

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Editorial Review

Review
Part I: FOUNDATION DC CONCEPTS. 1. Introduction. 2. Voltage And Current. 3. Resistance. 4. Ohm's Law, Power, and Energy. Part II: BASIC DC ANALYSIS. 5. Series Circuits. 6. Parallel Circuits. 7. Series-Parallel Circuits. 8. Methods of Analysis. 9. Network Theorems. Part III: CAPACITORS AND INDUCTANCE. 10. Capacitors and Capacitance. 11. Capacitor Charging, Discharging, and Simple Waveshaping Circuits. 12. Magnetism and Magnetic Circuits. 13. Inductance and Inductors. 14. Inductive Transients. Part IV: FOUNDATION AC CONCEPTS. 15. AC Fundamentals. 16. R, L, and C Elements and the Impedance Concept. 17. Power in AC Circuits. Part V: IMPEDANCE NETWORKS. 18. AC Series-Parallel Circuits. 19. Methods of AC Analysis. 20. AC Network Theorems. 21. Resonance. 22. Filters and the Bode Plot. 23. Three-Phase Systems. 24. Transformers and Coupled Circuits. 25. Nonsinusoidal Waveforms. Appendix A: PSpice And MultiSim. Appendix B: Mathematics in Circuit Analysis: A Brief Tutorial. Appendix C: Maximum Power Transfer Theorem Derivation. Appendix D: Answers To Odd-Numbered Problems. Glossary. Index.

About the Author
Allan Robbins, B.Sc., M.Sc., was an instructor at Red River College in Winnipeg, Manitoba, where he taught numerous courses in the Electrical/Electronic Engineering Technology Department prior to his retirement. He has served both as section chair and treasurer of the Institute of Electrical and Electronics Engineers (IEEE), and as treasurer of the Electronics Industry Association of Manitoba. Robbins is also a former director of training, industrial applications, for Microelectronics Center. He holds bachelor and master of science degrees in electrical engineering.

Wilhelm Miller, Dipl T, B.Sc., taught numerous courses in the Electrical/Electronic Engineering Technology Department at Red River College in Winnipeg, Manitoba, where he also served as chair of the department. Miller has served as president of the Certified Technicians and Technologists Association of Manitoba (CTTAM) and is currently chair of the Canadian Technology Accreditation Board (CTAB). He holds a diploma of technology in electronics and a bachelor of science degree in physics/mathematics.

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