



# Circuit Analysis with Devices: Theory and Practice

By Allan H. Robbins, Leo Chartrand, Wilhelm C Miller

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This new book answers the call for a combined circuit analysis/electronic devices text that emphasizes fundamental concepts, critical thinking, and problem solving. Following the same student-friendly, easy-to-understand format used in *Circuit Analysis: Theory and Practice, 3E* by Robbins and Miller, topics include: methods of analysis, capacitance, inductance, diodes, op amps, optical devices, and more. Basic electronic devices and their applications are covered in a concise, yet comprehensive manner. Two popular computer application packages, MultiSIM and Cadence PSpice, both in their latest versions, are integrated throughout to help students learn via hands-on simulation, with step-by-step instructions and full-color screen captures to enhance learning.

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**Circuit Analysis with Devices: Theory and Practice** By Allan H. Robbins, Leo Chartrand, Wilhelm C Miller **Bibliography**

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### **Editorial Review**

#### 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.

Mr. Chartrand holds a Bachelor of Science degree in electrical engineering from Queen's university in Kingston Ontario. He has been teaching digital courses for 20 years at Niagara College in Welland , Ontario. Mr. Chartrand has made industry contributions with various designs including interfacing an infrared camera to a PC, creating a digital circuit board used as a PC training system, and designing a control pendant for an air-filled medical bed. He also worked as a plant engineer for General Motors.

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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