



# Electronic Troubleshooting, Fourth Edition

By Daniel Tomal, Aram Agajanian

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**Electronic Troubleshooting, Fourth Edition** By Daniel Tomal, Aram Agajanian

## The Most Complete, Current Guide to Troubleshooting and Repairing Electrical and Electronic Devices

"If it's electronic, and there is troubleshooting to be done, then this is the book to reach for!" --Dr. Simon Monk, bestselling author of *30 Arduino Projects for the Evil Genius* and *Hacking Electronics: An Illustrated DIY Guide for Makers and Hobbyists*

"...an outstanding book on electronic troubleshooting with clear, concise, and concrete examples that anyone can relate to." --James Karagiannes, Ph.D. Physics, Associate Dean of Engineering and Information Sciences, DeVry University, Chicago

Fully updated for the latest technologies, devices, test instruments, and problem-solving methods, the new edition of this practical resource provides you with the comprehensive information you need to troubleshoot today's electrical and electronic equipment. Inside you'll find new and enhanced coverage of:

- Wireless communications
- Embedded microprocessor systems
- Cutting-edge medical diagnostic equipment
- Advanced networking technologies

The book uniquely blends traditional electrical theory and components with modern networking and electronic technology. Chapter-ending questions and problems test your understanding of the topics discussed. Filled with tables, charts, illustrations, graphs, and flowcharts, this is a must-have manual for anyone who works with electronics--at home or on the job.

*Electronic Troubleshooting, Fourth Edition*, covers:

- Electric motors and generators
- Industrial controls
- Residential, commercial, and wireless communications
- Radio and television

- Digital circuits
- Combinational and sequential digital circuits
- Microprocessor-based systems
- Biomedical equipment
- Computer networking and network drives
- Embedded microprocessor systems



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### Editorial Review

#### About the Author

**Daniel R. Tomal, Ph.D.**, is a professor, consultant, and award-winning author. He has authored 15 books and over 200 research studies and articles on the topics of electronics, technology, research, and leadership. He is a widely sought-after speaker and lives in Wheaton, Illinois.

**Aram S. Agajanian, Ph.D.**, is a senior professor at DeVry University in Chicago. He holds a B.S. in Electrical Engineering from University of Rochester, a M.S. in Electrical Engineering from Syracuse University, and a Ph.D. in Educational Leadership from Colorado State University. Dr. Agajanian teaches computer networking, electronics, computer, and biomedical engineering technology courses at Devry, and has 10 years of industrial experience in electrical engineering. His research interests include electronic and digital circuits and understanding the issues that affect enrollment and retention of female students in science, math, engineering and technology (SMET). Dr. Agajanian is also interested in teaching methods such as brain-based teaching, constructivism, team teaching, and active learning that might improve the quality of engineering education.

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